

County of Los Angeles Department of Public Works  
**BIENNIAL REPORT**





# DEPARTMENT OF PUBLIC WORKS

900 South Fremont Ave, Alhambra, CA 91803-1331 [www.dpw.lacounty.gov](http://www.dpw.lacounty.gov)



## COUNTY OF LOS ANGELES

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# Director's Biennial Report Message

For the County of Los Angeles Department of Public Works, the 2009-2011 Biennium was a time of challenge and change.

It began in dramatic fashion with the Department in full disaster response mode to the devastating Station Fire, the biggest wildfire in the County's history, which destroyed 163,000 acres of the Angeles National Forest, damaged 47 miles of County roads, and claimed the lives of two Los Angeles County firefighters. In the wake of the conflagration, the Department prepared for and responded to mudslides and debris flows that threatened foothill communities and put its flood control system to the test. That vigil continues to this day.

Internally, the Department rose to the challenge of identifying and responding to emerging issues and factors, such as increasing costs, population, public demand for accountability, liability claims and litigation costs, and aging infrastructure that threatened to negatively influence it and the environment in which it operates. The result of this critical analysis was the development of the Strategic Plan 2012, a bold new road map for the future that redefined the Department's mission, vision, values, and priorities to provide a more modern and sustainable business approach to increase efficiencies, reduce costs, improve effectiveness, and better reflect how customers experience our services.

Despite these challenges, the Department was able to maintain a full, comprehensive program of community projects and programs. During the biennium, the Department managed a total of 161 capital projects collectively valued at more than \$2 billion. Of those, 41 projects valued at \$232 million were completed and delivered for clients that included the Chief Executive Office and Sheriff's, Fire, Health Services, Parks and Recreation, Probation, Library, and Beaches and Harbors Departments. Construction activities were also highlighted by the substantial completion of the massive, \$100 million Big Tujunga Dam Seismic Rehabilitation and Spillway Modification project and the Interstate 5/Hasley Canyon Road Interchange.

The Department continued to display outstanding innovation in the delivery of its programs and services, particularly in the area of e-Government, an effort led by the in-house development of The Works, a free iPhone application that allows customers to report potholes, graffiti, street sweeping, illegal dumping, and request and track repairs and removal. The Department also began a comprehensive project to redesign and expand its website to meet the ever-growing demand of customers and took initial steps towards the development and implementation of new social media programs.

Innovation and sustainable leadership also continued in the area of waste management and environmental programs with the approval by the County Board of Supervisors of a Countywide ban on single-use, plastic carryout bags and the green light to pursue cutting-edge conversion technologies.

The Department's outstanding accomplishments were recognized throughout the biennium with a total of 98 national, State, and County awards for both group and individual excellence and achievement.

In closing, there is no doubt as outlined by the many success stories highlighted in this report that the 2009-2011 Biennium clearly demonstrated the unparalleled pride, dedication, and spirit of the Department's 3,800 employees in upholding our mission to provide public infrastructure and municipal services to protect and enrich the daily lives of the County's 10 million residents.

I am proud of these efforts and achievements. Protecting and enriching lives is what we do. The men and women of Public Works are ready to serve!

Gail Farber  
Director



# DEPARTMENT OF PUBLIC WORKS



Gail Farber  
Director



Mark Pestrella



Jacob Williams

## Assistant Directors



Diego Cadena



Patrick V. DeChellis



Massood Eftekhari



Dennis Hunter



John Kelly



Diane Lee



Bill Winter

## Deputy Directors



Jesse Juarros  
Chief Information Officer



Dawnna Lawrence  
Chief Financial Officer



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# OVERVIEW

The County of Los Angeles Department of Public Works was formed on January 1, 1985, consolidating the former County Road Department, a portion of the County Engineer- Facilities, and the County Flood Control District. In 1995, Public Works assumed the responsibility for capital projects from the County Internal Services Department.

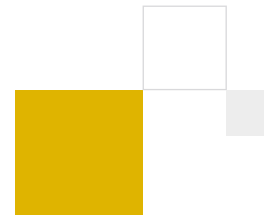
Public Works is comprised of over 34 divisions and groups with 3,400 employees in more than 500 job classifications, including professional, technical, clerical, and skilled crafts. The Department's annual operating budget of \$2 billion is funded by restricted revenues, such as gas excise and sales tax, benefit assessment, water and sewer sales, user fees, and contract cities revenues. Headquartered in Alhambra, California, the Department has 77 field facilities throughout the unincorporated Los Angeles County area as well as contract cities.

The Department is responsible for the design, construction, operation, maintenance, and repair of roads, traffic signals, bridges, airports, sewers, water supply, flood control, water quality, and water conservation facilities,

and for the design and construction of capital projects. Additional responsibilities include regulatory and ministerial programs for the County of Los Angeles, the Los Angeles County Flood Control District, Garbage Disposal Districts, other special districts, and contract cities that request services. The Department also monitors and controls traffic signals Countywide from its Traffic Management Center in Alhambra.

As a first responder agency for the County, the Department maintains a 24-hour Emergency Operations Center to respond to emergencies and disasters, such as flood, earthquakes, and mud and debris flows as well as problems reported by the public and other agencies.





## Strategic Planning

Public Works' Strategic Plan 2012 defines our mission, vision, values and priorities and outlines the overall business strategy we have developed to address the increasingly complex issues and challenges we expect in the next three to five years.

In order to adapt to these emerging issues, we have formally adopted a sustainable business approach and taken a more holistic, creative, and collaborative method to solving problems. This requires that we seek a balanced approach to deliver projects, programs, and services in an environmentally, socially, and economically responsible way to ensure the long-term health and well-being of the communities we serve.

Our Strategic Plan incorporates a number of new elements that re-frame the standard business approach. Beyond the vision and mission, we have defined five strategic focus areas to address issues and challenges, six core service areas to better reflect how citizens experience us, and seven core values that represent our underlying principles. Finally, we have applied a new measurement tool called "Quad Sheets" to simplify and target the vital, few results that residents care about the most.

To learn more about our Strategic Plan 2012, visit our website at [www.dpw.lacounty.gov](http://www.dpw.lacounty.gov) and view the full document. With this plan for the future, and our commitment to protect and enrich lives, together, we can achieve our vision – creating communities...sustaining life.





Acton – Agoura – Agua Dulce – Alondra Park – Alpine – Altadena – Antelope Acres – Athens – Avocado Heights – Baldwin Hills – Bandini – Bassett – Belvedere Gardens – Big Pines – Bouquet Canyon – Calabasas Highlands – Canyon Country – Castaic – Castaic Junction – Charter Oak – Chatsworth – Citrus – City Terrace – Cornell – Crystalaire – Deer Lake Highlands – Del Aire – Del Sur – Dominguez – Dominguez Hills – Eagle Rock – East Azusa – East Compton – East La Mirada – East Los Angeles – East Pasadena – East San Gabriel – East Whittier – Eastmont – Elizabeth Lake – Fairmont – Fernwood – Firestone – Florence – Forrest Park – Franklin Canyon – Gorman – Graham – Green Valley – Hacienda Heights – Hi Vista – Juniper Hills – Kagel Canyon – Kinneloa Mesa – La Crescenta – La Rambla – Ladera Heights – Lake Hughes – Lake Los Angeles – Lake View – Lang – Lennox – Leona Valley – Little Rock – Llano – Long View – Los Cerritos Wetlands – Los Nietos – Malibu Highlands – Malibu Lake – Malibu Vista – Marina Del Rey – Mint Canyon – Monte Nido – Montrose – Neenach – Newhall – North Claremont – Northeast San Dimas – Pearblossom – Placerita Canyon – Quartz Hill – Rancho Dominguez – Redman – Roosevelt – Rowland Heights – San Pascual – San Pedro – Santa Catalina Island – Saugus – Seminole Hot Springs – Soledad – South Monrovia – South San Gabriel – South San Jose Hills – South Whittier – Stevenson Ranch – Sulphur Springs – Sun Village – Sunshine Acres – Sylmar – Sylvia Park – Three Points – Topanga – Topanga Canyon – Triunfo Canyon – Twin Lakes – Universal City – Val Verde – Valencia – Valinda – Valyermo – Vasquez Rocks – Veterans Administrative Center – View Park – Walnut Park – West Arcadia – West Athens – West Carson – West Chatsworth – West Compton – West Pomona – West Puente Valley – West Whittier – Westfield – Westmont – White Fence Farms – Whittier Narrows Recreation Area – Willowbrook – Wilsonia Gardens – Windsor Hills – Wrightwood

# Public Buildings

“We design and deliver high-performing facilities and services to thrive.”

## CAPITAL PROJECTS

Public Works develops and implements the County's complex capital projects, and designs and prepares plans for small-to medium-sized County capital projects.

During the biennium, Public Works managed 161 capital projects valued at \$2 billion. Of those, 41 projects were completed valued at over \$232 million. These capital projects were developed for the Chief Executive Office, Sheriff, Fire, Health Services, Parks and Recreation, Probation, Public Libraries, Beaches and Harbors, and Public Works.

Public Works actively implemented new contracting authority allowing the Department to use the design-build method of contracting for buildings and facilities. Design-build offers an additional contracting strategy in the public and private sectors to provide better results and more efficient delivery. Currently, 17 design-build projects valued at \$838 million are underway.

## 2009-2011 Highlights:

- **Martin Luther King, Jr. Medical Center Replacement Project** – As part of the Board of Supervisors' joint effort with the University of California to restore patient care at this facility, in August 2009, the Board of Supervisors



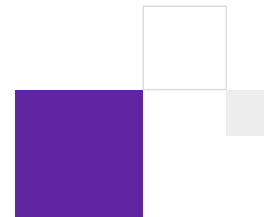


approved the establishment of two capital projects to replace inpatient and outpatient facilities on the Martin Luther King, Jr. Medical Center campus.

- o **Inpatient Tower Replacement Project** – Awarded a design-build contract for this project in April 2011, with expected completion in spring 2013. This \$228.7 million project consists of reconfiguring an existing five-story, 190,000-square-foot building into a new state-of-the-art, 120-bed community hospital. In addition, the project includes seismic upgrades of two existing buildings to house the hospital's kitchen and central plant. When completed, this project is anticipated to attain a U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED) Silver certification.
- o **Multi-Service Ambulatory Care Center Project** – Awarded a design build contract for this \$150 million project in October 2011 and construction is expected to be completed in late 2013. This project consists of a new four-story, 130,000-square-foot outpatient facility to house specialized clinics and five outpatient operating rooms. The project also includes remodeling two existing buildings to house various support services. The project is anticipated to attain a LEED Silver certification.
- **Harbor-UCLA Medical Center Surgery/Emergency Replacement Project** – Completed the 544-space parking structure for this project in February 2011. The parking structure features a photo-voltaic (solar) panel system that will partially offset electrical consumption on the campus. The hospital expansion will add 190,300 square feet to replace the surgery, emergency, and central sterile facilities. The \$322.6 million building will house 16 operating rooms and 80 emergency/trauma bays. Substantial project completion is anticipated for early 2013.

- **Olive View-UCLA Emergency Services Replacement and Tuberculosis Unit Project** – Completed construction of a new 31,000-square-foot emergency services building and a 10,000-square-foot, 15-bed Tuberculosis Patient Unit ahead of schedule in November 2010 and more than \$1 million below budget. The \$53 million facility was opened in March 2011, providing vastly expanded patient care services to the San Fernando and Santa Clarita Valley areas.
- **Olive View-UCLA Psychiatric Urgent Care Center Project** – Began construction of the 11,000-square-foot building in November 2009 to house urgent care functions for the County of Los Angeles Department of Mental Health located on the Olive View-UCLA Medical Center campus. The \$10.8 million project was substantially completed in April 2011, approximately \$500,000 below budget. The project is obtaining a LEED Silver certification and is one of the first projects completed using the design-build project delivery method.





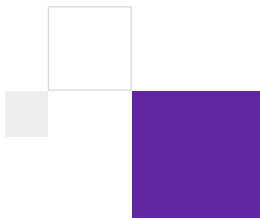
- **South Health Center Project** – Began space programming for the project in 2009 and the design-build contract was awarded in May 2010. This two story 30,000-square-foot building houses clinics for communicable diseases as well as offices for staff from the County of Los Angeles Department of Public Health. The \$20 million project was substantially completed in May 2011, one month ahead of schedule and \$2 million below budget. The project is attaining a LEED Silver certification.
- **High Desert Multi-Service Ambulatory Care Center Project** – Completed the selection of the design builder for this project and construction will begin in the next biennium. The \$141 million project will include a new 142,000-square-foot ambulatory care center facility in the Antelope Valley to provide outpatient surgery services and primary, urgent, and specialty care. The project received a 2011 Los Angeles Architectural Award from the Los Angeles Business Council for the completed design concept.
- **Coroner Facility Improvements Project** – Completed construction of a new Crypt Building in April 2011. The remodel of the existing Coroner facility will be completed by May 2013. This \$32 million multiphased project will address decedent storage issues and will improve the operations and services at the facility.
- **Dockweiler State Beach Youth Center Project** – Completed construction of a new 8,800-square-foot building to provide opportunities for inner city and at-risk children to increase their awareness of ocean and beach safety. The new facility was completed and opened in October 2009.
- **Stephen Sorensen Park Gymnasium and Community Building** – Began construction of a new 15,000-square-foot gymnasium and community

building in Lake Los Angeles. The \$11,200,000 project will incorporate sustainable features to achieve LEED Silver rating.

- **New Library Construction Program** - Managed construction of five new library facilities to serve the unincorporated areas of Topanga, East Compton, La Crescenta, Acton/Agua Dulce, and the City of Lawndale. These libraries either replaced aging and undersized buildings or provided new services.
- **East Rancho Dominguez Library** – Completed the design of the proposed 7,200-square-foot library that will be 40 percent larger than the current leased space. The expanded library facility is designed to achieve the United States Green Building Council Leadership in Energy and Environmental Design Silver level certification and will be highly energy efficient with roof solar panels and other sustainable design features.



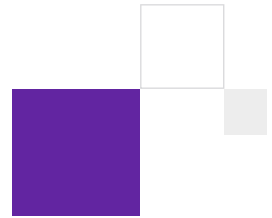




- **Topanga Library** – The 11,293-square-foot library includes a reading area for adults, community meeting room, homework center, group study room, teen center, children's area with outside reading patio, express-service checkout machines, and public access computers. The library will seek to obtain a Gold level LEED certification. The furniture for the library was made of materials used from trees cut from the site.
- **Acton/Agua Dulce Library** – This new single-story 11,350-square-foot library was opened in September 2010 and includes wall mounted art disks consisting of historical photos from the communities of Acton/Agua Dulce, gravel paving in the parking lot to retain and percolate stormwater run-off on site, and a hitching post to serve library patrons on horseback from the surrounding equestrian community.



- **Lawndale Library** – Completed construction of the new \$12.7 million Public Library Bond Act project to replace a 3,203-square-foot library with a new 17,360-square-foot facility. The new facility houses children's, young adult, and adult reading areas; homework and career centers; community meeting room; technology training room; conference rooms; multimedia viewing stations; story telling area; staff and building support areas. The project also included civic art that won an award and national recognition.
- **La Crescenta Library** – Completed construction of a new two story, 15,010-square-foot library to replace the existing single-story 4,300-square-foot library. The new facility opened in January 2010 and received a 2010 B.E.S.T (Building Excellence Shaping Tomorrow) Project of the Year Award from the Southern California Chapter of the American Public Works Association.
- **Animal Shelters Improvement Program** - In an effort to relieve overcrowding and improve animal care services, the County is undertaking various improvements at existing animal shelter facilities and planning for construction of a new animal shelter in the East Antelope Valley area.
- **Lancaster Animal Shelter Expansion Project** – Completed construction of a new 3,600-square-foot kennel building, a 900-square-foot cat holding facility, and 2,300-square-foot animal barn. This project was managed and designed by Public Works staff.
- **Lancaster, Baldwin Park, and Carson/Gardena Animal Shelter Spay/Neuter Clinics** – Completed construction of a new permanent 1,575-square-foot spay/neuter clinic building at each of the three animal shelters to replace existing clinic trailers and to provide improved and more efficient animal care services.



- **Proposed East Antelope Valley Animal Shelter** – Completed the programming phase and continued planning for development of a new animal shelter to be located on the eastside of the Antelope Valley at a site yet to be determined.
- **Centinela Area Probation Office** – Opened in February 2009, this new building provides 25,000 square feet of office space for 152 employees. The building has offices for administration, support staff, and Probation Officers, and provides areas for interviewing, narcotics testing, education, and video conferencing.
- **Centinela Area Building and Safety District Office** – The Office provides building plan check and code enforcement services for the unincorporated communities of Westmont, Athens, Florence/Firestone, Walnut Park, Willowbrook, Athens Village, Rosewood, East and West Rancho Dominguez,

Lennox, El Camino Village, Del Aire, Windsor Hills, View Park, Baldwin Hills, Ladera Heights, Marina del Rey, and Catalina Island. The new office greatly enhances customer service with a public counter with sit down service, kiosk/computer work stations, and conference and training rooms. The total project cost was \$20.8 million.

- **Athens South Los Angeles Sheriff's Station** - Completed this \$37 million project in November 2010. Located in the unincorporated area of Athens, the project consisted of demolishing an existing White Front Store Building that housed the County of Los Angeles Department of Public Social Services/ Probation offices and construction of a new Sheriff's Station to replace the services provided at the Lennox Sheriff's Station.
- **Fire Station 156 – Santa Clarita** – The new \$8.6 million Fire Station replaced an adjacent temporary Fire Station and was constructed on 1.27 acres within an unincorporated valley of the West Creek project area. The 10,750-square-foot station consists of approximately 6,619 square feet for general house operations, 2,960 square feet of apparatus bay area, 10 dormitories, and a dozer team facility.
- **Fire Stations 65 and 67** – Low-Impact Development (LID) – LID design features were implemented within the existing landscape. LID is an innovative stormwater management approach that incorporates design features that aim to mimic a site's natural, predevelopment hydrology. LID features, such as the use of pervious concrete/pavers, bio-swales, rain gardens, and detention ponds encourage storm water infiltration and treatment within the project's site, thus, generating less surface runoff, pollution, and erosion.



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# Water Resources Management

“We provide sustainable water supplies and healthy watersheds while reducing flood risk for our communities.”

## WATER RESOURCES

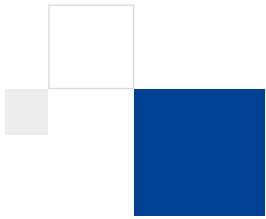
There are Special Districts related to Water Resources in the Department of Public Works. These are the Los Angeles County Flood Control, Waterworks, and Sewer Maintenance Districts. Through these Districts, Public Works is responsible for Countywide water resource management program areas that include Flood Risk Management, Water Supply, and Watershed Health.

### Flood Risk Management

The Flood Control District constructs, operates, and maintains a system of flood control and water conservation facilities that provide flood protection and increase local water supply. The Flood Control District's powers are exercised through the County Board of Supervisors acting as the Flood Control District's governing body. Policy and planning, engineering and operations, and maintenance functions of the Flood Control District are performed by three Public Works divisions: Watershed Management, Water Resources, and Flood Maintenance.







The Flood Control District's boundaries encompass 2,752 square miles. District facilities include 14 dams and reservoirs, 487 miles of open channels, 3,073 miles of underground storm drains, 57 pump plants, 162 debris basins, 27 sediment placement sites, 27 spreading grounds, 23 low-flow diversion structures, and 3 seawater intrusion barriers.

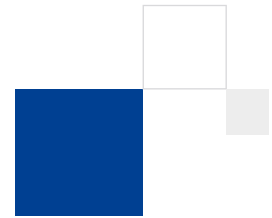
The Flood Risk Management Program includes planning; operation; maintenance; emergency storm response; storm drain rehabilitation; debris protection; floodplain management; public service; and construction of storm protection facilities, such as dams, channels, debris basins, storm drains, pumps, and removal of accumulated debris from reservoirs, debris basins, and debris retaining inlets.

The Flood Control District offers post-fire engineering debris protection advice to potentially affected residents in fire areas. The District has set up a mud flow hotline to provide residents with the means to contact engineers at the District.

## 2009-2011 Highlights:

- Removed over 1.2 million cubic yards of debris and sediment to maintain flood protection throughout the 2009-2010 winter storm season. The 2009 Station Fire burned more than 163,000 acres in the upper reaches of Los Angeles and San Gabriel Rivers Watersheds in the San Gabriel Mountains.
- Completed substantial construction of the Big Tujunga Dam Seismic Rehabilitation and Spillway Modification Project to upgrade the dam to meet current State seismic and spillway capacity requirements. This \$100-million project improved the seismic and flood safety of the dam and increased its water conservation capacity by 4,500 acre-feet, resulting in increased local water supply and enhancements to downstream habitat. Project construction costs were offset by \$32.6 million in outside funding from a Federal Emergency Management Agency Hazard Mitigation Grant and a State Proposition 13 Groundwater Storage Grant as well as





cooperative funding from the City of Los Angeles Department of Water and Power, Proposition 84 funding through the Rivers and Mountains Conservancy, and Proposition A funding through the Regional Parks and Open Space District.

- Initiated a Dams Inlet/Outlet Works Rehabilitation Program, which includes a programmatic repair, rehabilitation and replacement of deficient inlet/outlet works infrastructure, including valves, gates, motor operators, control systems, and ancillary components that are at or near the end of their useful lives. About \$20 million of the \$60 million program is complete or under construction. Included in this program is the Morris Dam Inlet/Outlet Works Rehabilitation Project, which is currently under construction for a contract cost of \$9.2 million. This project is scheduled to receive \$5.1 million from the State Proposition 50 Grant Program.
- Initiated the Security Action Plan for Flood Control District's major dams. This program includes updated protocols for responding to Homeland Security threat alerts, updated dams visitation policies, and physical infrastructure improvements, such as new hardened gates, control house intrusion alarms, and improved security lighting.
- Conducted the Tabletop and Functional Exercises required every five years by the Federal Energy Regulatory Commission (FERC) for the Emergency Action Plan for the San Gabriel Dam and Reservoir, which contains a hydroelectric facility.
- Initiated first season of sediment removal activities at Santa Anita Dam, which moved approximately 187,000 tons of reservoir sediment to the

Sediment Placement Site using a conveyor system. The second season started in April 2012 and removed the remaining sediment from the reservoir for a total estimated cleanout of 600,000 tons. This project will also include the construction of a new outlet riser to maintain reservoir water levels within a lower operating range that meets current seismic standards.

- Provided mudflow protection advice to over 550 residents in Acton, Glendale, Los Angeles (Tujunga), La Canada Flintridge, La Crescenta, and Santa Clarita as a result of wildfires in these areas in 2009 and 2010.
- Implemented temporary debris protection measures in neighborhoods potentially impacted by the 2009 Station Fire while the burned hillsides recover. Public Works received reimbursement from the Natural Resources Conservation Service (NRCS) through its Emergency Watershed Protection Program, for a portion of the installation costs in the amount of \$153,613. Public Works permanently enlarged three of the facilities in 2010-11. The Flood Control District also installed concrete K-rail barriers along numerous streets in La Crescenta and the City of La Canada Flintridge in 2009. The NRCS, through its Emergency Watershed Protection Program, reimbursed a portion of the installation costs in the amount of \$321,100.
- Constructed enlargements to Pinelawn, Big Briar, Pickens, Starfall, Snover, and Mullally Debris Basins under a \$1million emergency contract to add capacity for increased sediment loads expected from the Station Fire.
- Formed a Stakeholder Task Force and Advisory Working Group to develop the Sediment Management Strategic Plan to address the Flood Control District's long-term sediment management needs from 2012 to 2032.



- Reached a settlement with the Los Angeles By-Products Company for the acquisition of Strathern Pit for the implementation of the Sun Valley Watershed – Strathern Wetlands Park project and construction of detention ponds and wetlands on a site previously used as an inert landfill. Stormwater runoff will be captured and stored to provide flood control benefits, then conveyed through the wetlands to provide water quality enhancement. The treated flows will then be pumped to the adjacent Sun Valley Park for infiltration into existing infiltration basins to replenish groundwater supplies. Recreational trails, soccer fields, educational signage, and a restrooms/concessions building will also be incorporated into the project. The total settlement with the property owner was \$28 million, of which \$10 million will be funded by Proposition O funds and \$18 million from Flood Control District funds.
- Developed project management plans and began implementation for the cleanout of six dams impacted by the Station and Morris Fires. Devil's Gate, Big Tujunga, Cogswell, Pacoima, Morris, and Eaton Reservoirs all received a significant increase of sediment during the storms that followed the fires, reducing capacity for flood control and water conservation as well as rendering some outlet valves inoperable. The cost to remove the sediment will exceed \$150 million and will take several years to complete.
- Submitted documentation certifying 54 miles of levees to meet the Federal requirements for flood protection. The areas behind these levees are anticipated to continue to be shown as protected from the 100-year flood on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps.
- Updated and adopted the Floodplain Management Plan for Repetitive Loss Properties. This Plan is an activity under the National Flood Insurance Program's Community Rating System (CRS) and is to be updated every five years.
- Submitted 8 letters of map revision applications approved by FEMA, resulting in the removal of 66 properties from the Special Flood Hazard Area and the elimination of their flood insurance requirement.
- Continued the Compton Creek and Dominguez Channel Flood Risk Mitigation Alternatives Study, which will guide the Flood Control District in reducing the risk of flooding within the watersheds and remove the need for property owners to obtain mandatory flood insurance. The Advisory Committee includes members representing various community, environmental, City, County, State, and Federal interests, with the purpose of sharing specific knowledge of the channels and communities to best address solutions to keep the areas from being mapped into a special flood hazard area by FEMA.
- Completed construction of the new Termino Avenue Drain, which will provide substantial relief to thousands of Long Beach commuters, residents, and property owners from recurrent flooding. When completed, the \$25 million public works project will include 12,190 feet of underground storm drain and state-of-the-art water quality improvements that will provide both flood relief and protection from urban runoff.





- Developed a website for the County's participation in the National Flood Insurance Program that includes flood preparedness information, an enhanced flood zone map system, elevation certificates for structures in the floodplain, and information on Community Rating Service (CRS).
- Achieved an improved CRS rating for the County of Class 7 as a result of enhanced public outreach activities. Established as a goal for 2012, this was successfully accomplished ahead of schedule and resulted in a 15 percent reduction in flood insurance premiums for residential properties in the floodplain.
- Completed the planning and design of the \$12 million Quartz Hill Storm Drain project, which will provide flood protection in the unincorporated part of Antelope Valley. This project includes a road improvement project to overlay 50th Street. Construction is anticipated to be completed by fall of 2012.

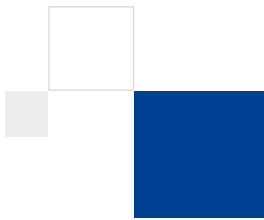
## Water Supply

The Water Supply program includes the conservation of storm flows, recycled water, and imported water through infiltration into groundwater basins for future use; seawater intrusion barrier projects to prevent saltwater from contaminating underground freshwater supplies; dam safety and debris removal projects that rehabilitate dams to withstand a maximum seismic event or probable maximum flood; reservoir clearance of accumulated debris to increase water conservation as well as flood control storage capacities; and capture and treatment of urban runoff through multibenefit projects.

The Water Supply program also involves operating and maintaining five Los Angeles County Waterworks Districts and the Marina del Rey Water System, which provides drinking water to more than 200,000 residents. Nearly half of the water supply needs of Los Angeles County are being met with imported water. A multiyear drought and new environmental restrictions at the source waters





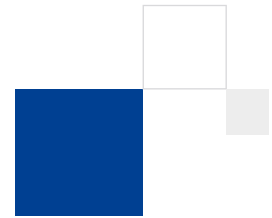


of the Sacramento-San Joaquin Delta have made maintaining an adequate water supply a concern. The Water Supply program is critical in meeting the demand for water and involves maintaining, modernizing, automating, and improving Flood Control District water conservation facilities, such as dams, reservoirs, spreading grounds, and seawater intrusion barriers.

The Flood Control District's groundwater recharge facilities' storage capacity exceeds 23,300 acre-feet. These facilities allow for stormwater runoff, imported water, and recycled water to be percolated back into the aquifers and are operated year round to replenish groundwater basins. Groundwater recharge operations during the 2009-2011 storm seasons captured enough water to serve 8 million people in the County for an entire year.

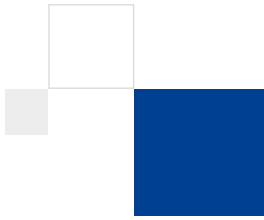
## 2009-2011 Highlights:

- Provided \$1 million of design services for improvements to Tujunga Spreading Grounds for the City of Los Angeles Department of Water and Power.
- Removed 150,000 cubic yards of sediment at Rio Hondo Coastal Basin Spreading Grounds to restore percolation rates at a cost of \$1.2 million.
- Completed construction of three new basins at Santa Anita Spreading Grounds using Flood and Road Maintenance crews. The project will conserve an additional 300 acre-feet of water annually.
- Completed a \$1million project for the replacement of one and modification of two spillway structures at Rio Hondo Coastal Basin Spreading Grounds, which increased conveyance and the ability to control flows within the facility. The project will conserve an additional 500 acre-feet of water annually.
- Completed construction of basin improvements at Eaton Wash Spreading Grounds. The project increased capacity and restored conveyance to the lower spreading basins and will conserve an additional 300 acre-feet of water annually.
- Completed construction of a \$1.2 million pipeline connecting Ben Lomond and Citrus Spreading Grounds. The pipeline will conserve 5,200 acre-feet of water annually and was jointly funded with the San Gabriel Valley Municipal Water District.
- Completed construction of Hansen Spreading Grounds Basin Improvement to expand capacity and inflow to increase water conservation by an estimated 1,200 acre-feet per year at a cost of \$7.2 million. The City of Los Angeles Department of Water and Power contributed \$3.6 million toward the project.
- Completed construction of a pump station and pipeline connecting San Gabriel and Rio Hondo Coastal Basin Spreading Grounds. The pipeline can convey flows in either direction to maximize water conservation at the Department's two most active facilities. The \$5 million project will increase groundwater recharge by 7,000 acre-feet annually and was jointly funded with the Water Replenishment District of Southern California.



- Completed construction of an irrigation reclaimed water trunk pipeline along Mines Avenue to serve the City of Pico Rivera's park landscaping and Public Works' Rio Hondo Coastal Basin Spreading Grounds and San Gabriel Coastal Basin Spreading Grounds landscaping needs in the future.
- Awarded \$17.1 million in new contracts that included installation of 24,000 linear feet of pipelines, construction of two booster pump stations, drilling and construction of a groundwater well, construction of a 3-million-gallon water storage reservoir, rehabilitation of the interior coatings of two water storage reservoirs and the demolition of two existing reservoirs. We also completed construction of approximately 13,000 linear feet of pipelines and a pressure regulating station from previously awarded contracts.
- Executed a funding agreement with the City of Palmdale and awarded a design contract for 47,000 linear feet of pipeline, a 9,200-gallon-per-minute pump station, and a 3-million-gallon storage tank for the North Los Angeles/Kern County Regional Recycled Water project.
- Improved Waterworks District No. 40 (Antelope Valley) water supply reliability by constructing two new interconnections with the Antelope Valley-East Kern Water Agency's system that greatly improved the ability to maximize use of imported water supply and better manage groundwater use.
- Rehabilitated and extended the life expectancy of 15 wells, improving their water production and pumping efficiencies each by 10 percent.
- Developed a database to manage and store current and historical information on Waterworks Division's wells and pump stations, including as-built information, maintenance records, current equipment, performance history, and monthly usage patterns.
- Replaced 29 motors and/or pumps that resulted in the award of about \$141,000 in cash rebates from Southern California Edison. The replacements resulted in energy savings of over 1.4 gigawatt hours or enough to power 230 homes for a year.





- Implemented an innovative and cost-effective method to improve water quality in Waterworks District No. 21, Kagel Canyon. To comply with new, stringent drinking water standards for disinfection byproducts, Waterworks designed, built, and installed an aeration system inside the primary storage tank, which effectively reduces the concentration of trihalomethanes in the drinking water.
- Developed an alternative water supply for Waterworks District No. 36, Val Verde, by constructing a 2,000-gallon-per-minute groundwater well, 300,000-gallon forebay tank, pump station, and disinfection facility.

## Watershed Health

The Watershed Health program includes implementing a Stormwater Quality Management Program in accordance with the Los Angeles County Municipal Storm Sewer System National Pollution Discharge Elimination System (NPDES) Permit. Program elements include water quality monitoring, implementing a Countywide public education campaign, and routinely inspecting Flood Control District channels and storm drains for illicit connections and discharges. The Flood Control District also implements or facilitates the implementation of additional projects where feasible to improve water quality.

The Flood Control District's Countywide public education program raises stormwater pollution and watershed protection awareness among residents through a multifaceted outreach approach, including coordinating with 84 copermittee cities within Los Angeles County, media campaigns, media relations, community events, Best Management Practices workshops, and an environmental hotline and website.

Public Works also provides engineering services for the Los Angeles County unincorporated areas to address water quality regulatory compliance.

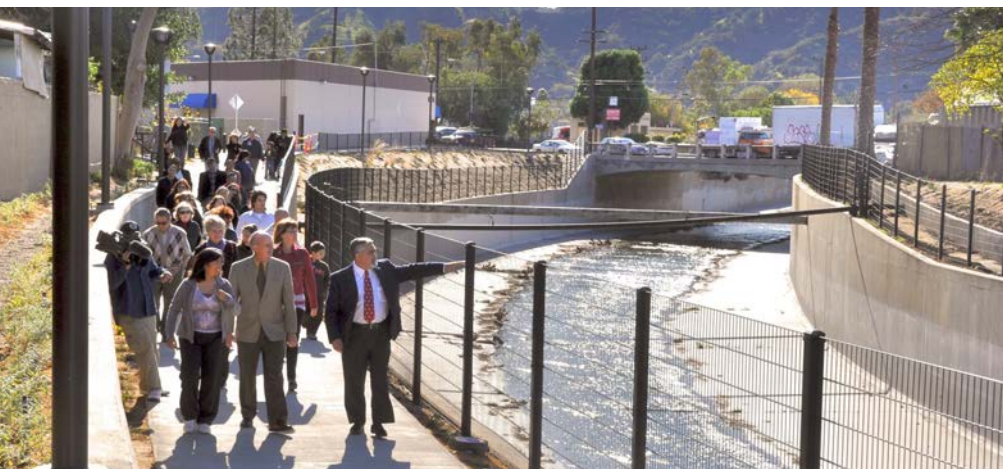
Further, Public Works administers the Consolidated Sewer Maintenance District and the Marina Sewer Maintenance District, protecting the health and welfare of 2.5 million people within the unincorporated County area and 41 cities by providing continuous and uninterrupted operation of the local sewage system. This system consists of 4,600 miles of collector sanitary sewers, 155 pump stations, and 4 small wastewater treatment plants.

## 2009-2011 Highlights:

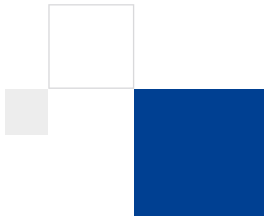
- Continued to assist the County's Chief Executive Office to develop a water quality funding measure. If approved by parcel owners within the Flood Control District, the revenue derived from the measure would provide a long-term, sustainable funding source for Flood Control District-wide water quality operations and maintenance.
- Completed construction of the Marina del Rey Low Flow Diversion, which diverts urban runoff from a 200-acre watershed into the sanitary sewer system and contributes to water quality improvement in Oxford Retention Basin and Marina del Rey Harbor.
- Completed development of a watershed management modeling system as a tool for cost-effective project development. The system will be used for future planning of multibenefit projects involving stormwater quality, flood protection, water conservation, and open space development.



- Implemented a Countywide stormwater public outreach program that achieved 900 million media impressions through radio, television, and print advertisement and reached 965,000 K-12 students and various ethnic communities.
- Screened 2,900 miles of Flood Control District channels and storm drains for illicit connections and illicit discharges and resolved all infractions in a timely manner.
- Completed construction of the Lake-Alameda Landscaped Access Path project to enhance a quarter-mile stretch of the Burbank Western Channel between Victory Boulevard and Alameda Avenue. The \$1.4 million Flood Control District and City of Burbank project added a pedestrian path, native landscaping, lighting, and improved fencing. The City of Burbank contributed approximately \$810,000 towards the cost, and they will maintain the project improvements.
- Awarded \$1.9 million in Proposition 84 California River Parkways Program grant funding for the Los Angeles River Headwaters project. The project will provide pedestrian paths along 1.25 miles of the Los Angeles River between Owensmouth Avenue and Mason Avenue. The project will include rain gardens, improved fencing, seating areas, interpretive signage, a pedestrian bridge over Browns Creek channel, and undercrossings at existing street bridges at Canoga Avenue and De Soto Avenue. The total construction cost is estimated to be \$7.4 million.
- Hosted quarterly copermittee public education meetings with guest speakers to provide updates about the Countywide public education program, status updates from the California Regional Water Quality Control Board, Los Angeles Region, and other issues.
- Aired stormwater pollution prevention messages through radio, print, video, Internet marketing campaigns, and media relation efforts that garnered more than 187 million audience impressions.
- Participated in more than 200 community events to encourage pollution prevention behaviors.
- Hosted two restaurant Best Management Practices (BMP) workshops reaching more than 300 restaurant managers. The workshops provided good housekeeping tips on four key areas of implementing a BMP plan: waste disposal and handling; spill prevention, control, and clean up; building and grounds maintenance; and employee training.



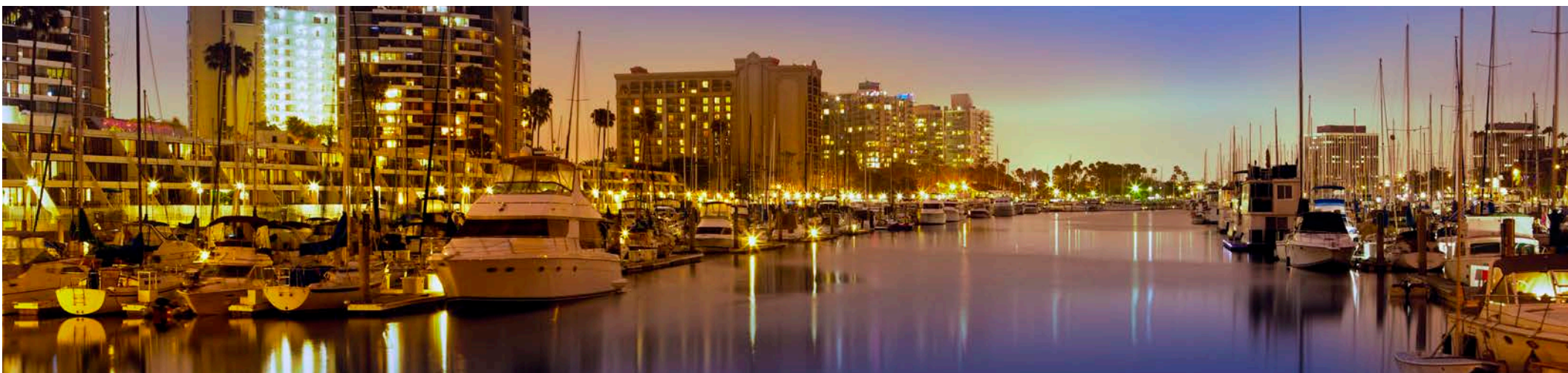




- Sponsored Heal the Bay's 2009 California Coastal Cleanup Day.
- Continued to support the activities of the Los Angeles and San Gabriel Rivers Watershed Council (now known as the Council for Watershed Health) through a financial agreement in which the Flood Control District annually contributes funds to the Council.
- Completed Low Impact Development (LID) Standards Manual for the Unincorporated County areas. The manual was developed pursuant to the County Board of Supervisors' adoption of LID ordinance in 2008. The manual describes design standards for postconstruction Best Management Practices for private new developments and redevelopments.
- Completed Green Infrastructure Guidelines for Public Works projects. The 2008 Board adoption of LID ordinance also requested Public Works

establish the guidelines for its own infrastructure projects to provide options to incorporate LID concepts and other sustainable practices.

- Implemented the Marina del Rey Harbor Toxic Pollutants Total Maximum Daily Load (TMDL) Coordinated Monitoring Program and Special Studies on behalf of the Los Angeles County, Caltrans, City of Los Angeles, and Culver City. This three-year, \$4.5 million program will conduct studies and evaluate the harbor water quality, sediment quality, marine biology, and stormwater quality in the Harbor. Information gathered from this program will be used to develop strategies to enhance the quality of urban runoff and stormwater entering into the Harbor.
- Entered into multiagency agreements on behalf of the Los Angeles County to implement the Regional Board-mandated TMDL coordinated monitoring programs for Ballona Creek, Marina del Rey, Santa Monica Bay, and Malibu Creek. These \$2.7 million annual programs represent an annual cost of \$800,000 for the County.





- Completed the installation of full capture trash removal devices at 192 catch basins to prevent trash from entering storm drains within unincorporated County areas of the Malibu Creek watershed.
- Completed construction of the new Termino Avenue Drain, from Anaheim Street and Redondo Avenue to Marine Stadium in Long Beach. The project includes construction of a low-flow diversion system and installation of trash excluders in catch basins to improve stormwater quality. The total construction cost is \$23 million, with a \$2 million contribution from the City of Long Beach.
- Rehabilitated 16.9 miles of deteriorated cement pipe sewer lines at a cost of \$2.1 million.
- Videotaped 927 miles of sewer lines to evaluate the structural condition of the sewer pipes under the Sewer Maintenance Districts' Condition Assessment Program.
- Rehabilitated two pump stations at a cost of \$212,000.
- Presented at the North American Society for Trenchless Technology of the Sewer Maintenance District's Condition Assessment Program and its impacts in reducing the District's sanitary sewer overflows by 60 percent.
- Completed construction and started operation of an odor scrubber unit along Admiralty Way at Marina del Rey to mitigate sewer odor issues from sewer manholes in the area
- Performed preventative maintenance cleaning of 4,706 miles of sanitary sewer lines.
- Disseminated the 2009 and 2010 Sewer Annual Reports to inform customers about the Sewer Maintenance Districts' activities.
- Provided responsive sewer services at minimal or no increases in sewer services charges to our customers, which continues to be a foremost priority.
- Completed the Sewer System Management Plan Audit for the Sewer Maintenance Districts' collection sewer systems as required by State law.
- Completed the rehabilitation of Bloomwood Pump Station.



Acton - Agoura - Agua Dulce - Alondra Park - Alpine - Altadena - Antelope Acres - Athens - Avocado Heights - Baldwin Hills - Bandini - Bassett - Belvedere Gardens - Big Pines - Bouquet Canyon - Calabasas Highlands - Canyon Country - Castaic - Castaic Junction - Charter Oak - Chatsworth - Citrus - City Terrace - Cornell - Crystalaire - Deer Lake Highlands - Del Aire - Del Sur - Dominguez - Dominguez Hills - Eagle Rock - East Azusa - East Compton - East La Mirada - East Los Angeles - East Pasadena - East San Gabriel - East Whittier - Eastmont - Elizabeth Lake - Fairmont - Fernwood - Firestone - Florence - Forrest Park - Franklin Canyon - Gorman - Graham - Green Valley - Hacienda Heights - Hi Vista - Juniper Hills - Kagel Canyon - Kinneloa Mesa - La Crescenta - La Rambla - Ladera Heights - Lake Hughes - Lake Los Angeles - Lake View - Lang - Lennox - Leona Valley - Little Rock - Llano - Long View - Los Cerritos Wetlands - Los Nietos - Malibu Highlands - Malibu Lake - Malibu Vista - Marina Del Rey - Mint Canyon - Monte Nido - Montrose - Neenach - Newhall - North Claremont - Northeast San Dimas - Pearblossom - Placerita Canyon - Quartz Hill - Rancho Dominguez - Redman - Roosevelt - Rowland Heights - San Pascual - San Pedro - Santa Catalina Island - Saugus - Seminole Hot Springs - Soledad - South Monrovia - South San Gabriel - South San Jose Hills - South Whittier - Stevenson Ranch - Sulphur Springs - Sun Village - Sunshine Acres - Sylmar - Sylvia Park - Three Points - Topanga - Topanga Canyon - Triunfo Canyon - Twin Lakes - Universal City - Val Verde - Valencia - Valinda - Valyermo - Vasquez Rocks - Veterans Administrative Center - View Park - Walnut Park - West Arcadia - West Athens - West Carson - West Chatsworth - West Compton - West Pomona - West Puente Valley - West Whittier - Westfield - Westmont - White Fence Farms - Whittier Narrows Recreation Area - Willowbrook - Wilsonia Gardens - Windsor Hills - Wrightwood



# Waste Management

“We lead, inspire, and support our communities toward a healthy waste-free future.”

## ENVIRONMENTAL PROGRAMS

As the lead advisor to the Board of Supervisors on solid waste management issues, and a State leader in resource conservation and environmental protection, Public Works plans and manages solid waste diversion and disposal for the unincorporated County areas as well as Countywide. Public Works provides waste collection services to unincorporated County communities through a vast franchise and garbage disposal district system. We also provide industrial waste permitting and inspection services in unincorporated County communities and 37 contract cities and hazardous material underground storage tank permitting and inspection services in unincorporated communities and 77 cities. Public Works manages and operates various programs to promote recycling and waste reduction in the public and private sectors, including the largest household hazardous and electronic waste management program in the nation.



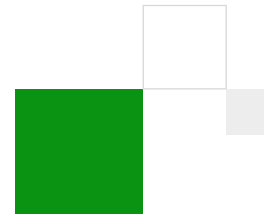


## Solid Waste Programs—Unincorporated County Areas

### 2009-2011 Highlights:

- Continued to enhance waste reduction and recycling programs for unincorporated County areas and maintained compliance with the waste reduction mandates of State law.
- Operated seven Garbage Disposal Districts (GDDs) serving a population of 360,000 residents within unincorporated areas in the South and East Los Angeles areas and a portion of the City of Malibu.
- Renewed contracts for automated waste collection and recycling services for the Firestone, Athens, and Walnut Park GDDs, which include new provisions requiring clean-fuel vehicles, and enhanced alley and bulky item clean-up services to reduce and collect illegally dumped materials.
- Accelerated the completion of a franchise system for residential waste collection services in unincorporated communities within the metropolitan area. This system provides high-quality, automated waste collection and recycling services at competitive rates for communities not serviced by the GDDs.
- Facilitated the adoption and implementation of a comprehensive County Ordinance banning single use plastic carryout bags and imposing a 10 cent charge on paper carryout bags at all supermarkets, grocery stores, pharmacies, drug stores, convenience stores, and foodmarts in the unincorporated County areas.
- Conducted 40 events to educate and prepare unincorporated area residents and affected stores for the July 1, 2011, implementation of Phase I of the plastic bag ban and distributed thousands of free reusable bags to customers.
- Launched the School Compost and Garden Program at 14 schools in unincorporated County communities.
- Reached nearly 500 unincorporated area businesses, providing free on-site waste assessment and recycling consultations through the Business Recycling Program.
- Helped keep unincorporated County areas clean by operating an effective illegal dumping program. Over 2,900 illegal dumping cases were handled through its reporting hotline and website. Cases that were not within the County's jurisdiction were referred to appropriate agencies for clean-up and enforcement.





- Recycled more than 80 percent of construction and demolition debris generated by over 400 projects in unincorporated County areas, which diverted over 75,000 tons of debris from landfill disposal.
- Conducted about 4,500 stormwater inspections at various sites and issued 400 notices of violation in the unincorporated areas to ensure that BMPs were in place to prevent stormwater pollution.
- Launched a targeted multifamily recycling program to provide tenants and property owners with on-site consultation and assistance with setting up recycling programs. The program is funded through \$400,000 in State grants, which provided for the distribution of over 5,500 indoor recycling bins to tenants and 155 cubic yards in outdoor recycling bin capacity.
- Offered two “Free Disposal Days” per year to the residents in the unincorporated areas of Sunland, Kagel Canyon, Lopez Canyon, West Chatsworth, Westhills, and Oat Mountain/Twin Lakes, to take up to one ton of household discards to the Sunshine Canyon Landfill.

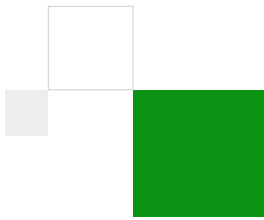
- Inspected about 3,200 business stormwater permits in the unincorporated areas of Los Angeles County to ensure that BMPs were in place to prevent stormwater pollution, and conducted investigations and enforcement on 1,200 facilities where illicit discharges and other stormwater pollution activities occurred.

## Solid Waste Programs—Countywide

### 2009-2011 Highlights:

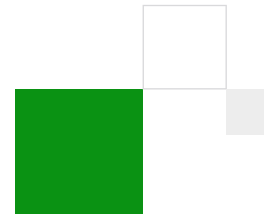
- Launched the first Countywide public education and outreach Brag About Your Bag® campaign, which focused on increasing awareness on the environmental benefits of using reusable bags over single use carryout plastic bags and paper bags. During the campaign, Public Works held exchange events at 50 supermarkets, distributed over 60,000 reusable bags, and collected over 40,000 single-use plastic bags. The month long campaign included NBA Champion Luke Walton of the Los Angeles Lakers as the spokesperson.





- Created the largest plastic bag ball in the world using over 40,000 plastic bags to illustrate how many plastic bags are consumed by residents in three minutes. The plastic bag ball will be showcased at the Ripley's Museum.
- Coordinated and participated in 150 outreach events throughout Los Angeles County and distributed over 100,000 reusable bags during the biennium. Successful events and partnerships included the Los Angeles County Fair and AEG's Earth Day at LA Live event.
- Obtained Board approval for Memorandums of Understanding with three solid waste facility and technology vendor teams to develop cutting edge demonstration conversion technology facilities in Southern California, and identified over 16 potential sites for the development of commercial-scale conversion technology facilities within Los Angeles County.
- Hosted a conversion technology informational workshop for over 120 participants from California cities, counties, State agencies, solid waste companies, and other stakeholders. Additional stakeholders from Hawaii, New York, Spain, and Sweden participated via a live webinar. The workshop provided attendees with information regarding the three County-approved conversion technology demonstration projects and encouraged attendees to participate in future projects within Los Angeles County.
- Presided over Los Angeles County's most complex solid waste management system in the nation, comprised of 11 Class III landfills, 2 waste-to-energy facilities, 13 inert waste landfills, over 60 materials recovery, transfer and processing facilities, and over 100 permitted waste haulers.
- Enhanced the recycling and e-waste collection infrastructure at County offices by providing beverage container recycling bins for 37 facilities, paper recycling bins for 33 facilities, and battery collection bins for 26 facilities.
- Conducted 14 free Waste Tire Collection Events whereby over 1.2 million pounds of waste tires were collected from residents and recycled into useful products, such as playground matting and rubberized asphalt concrete which the County uses in many of its street rehabilitation projects.
- Conducted over 300 Smart Gardening Workshops throughout the County where residents learned about composting, drought tolerant landscaping, and fire-wise gardening.
- Constructed a new smart gardening learning center at El Cariso Community Regional Park in Sylmar to conduct free smart gardening workshops for residents in the north County region.
- Coordinated the activities of the Los Angeles County Solid Waste Management Task Force, which is comprised of 17 members representing the League of California Cities, the County Board of Supervisors, the City of Los Angeles, solid waste industries, environmental groups, governmental agencies, and the private sector. Activities included the review and analysis of hundreds of State and Federal Legislative proposals related to integrated waste management.
- On November 16, 2010, the Board of Supervisors adopted an Ordinance to ban plastic carryout bags and impose a charge of 10 cents on each paper carryout bag used at all grocery stores, pharmacies, convenience





stores, and food marts in unincorporated areas. The Board also passed a motion banning plastic carryout bags at County operations and directed Public Works to encourage all 88 cities in the County to adopt similar ordinances. This historic action will significantly reduce the negative environmental impacts associated with single use plastic carryout bags, including reducing blight, protecting wildlife, keeping our storm drains and flood protection infrastructure safe, and reducing the consumption of natural resources. A website, named AboutTheBag.com, has been developed to inform municipalities, stores, and the public about the Carryout Bag Ordinance. To date, the Cities of Calabasas, Long Beach, Malibu, Manhattan Beach, and Santa Monica have adopted ordinances banning single use plastic bags, and the Cities of Culver City, Glendale, Inglewood, Los Angeles, and Pasadena, among other cities, are also considering or about to adopt similar ordinances.

- Facilitated the adoption of a prohibition on expanded polystyrene (EPS) foam food containers at all County operations and revision of the County's preferable purchasing guidelines to promote reusable, recyclable, and

compostable food packaging containers. Conducted an investigation on the feasibility of expanding the restriction to food service establishments and retail stores in the unincorporated County areas within 12 months of implementation of the prohibition at County operations and to evaluate appropriate infrastructure to handle alternative materials.

- Received over 1.39 million hits, averaging over 58,000 per month, on the [www.888CleanLA.com](http://www.888CleanLA.com) website and handled over 86,500 calls on the 1(888) CLEANLA hotline.

## Industrial Waste Control Program

The Industrial Waste Control Program covers the unincorporated areas and 37 cities. During this biennium, over 2,000 applications for new industrial waste permits and revisions were approved, 19,000 inspections performed, and 1,300 notices of violation issued for noncompliance with Federal, State, and local environmental regulations for the discharge of their waste waters.







## Hazardous Material Underground Storage Tank Program

The Underground Storage Tank Program covers the unincorporated areas and 77 cities. During this biennium, over 2,000 applications for modifications were approved, 4,100 inspections performed, and over 2,400 notices of violation were issued to bring sites into compliance with State law.

## Household Hazardous/Electronic Waste (HHW/E-Waste) Management Program

During this biennium, the Countywide HHW/E-Waste Management Program conducted mobile roundups, operated a permanent collection center, operated used motor oil collection centers, and expanded its household battery collection locations and home-generated sharps waste collection locations to enhance services to County residents.



## 2009-2011 Highlights:

### Mobile HHW/E-Waste Roundups

- Conducted 119 free Saturday roundups in various cities and unincorporated County areas.
- Over 115,000 households participated in the roundups. Collected more than 7.4 million pounds of household hazardous waste and over 2.8 million pounds of electronic waste.

### Household Battery Collection Program

- Expanded the Household Battery Collection Program to 16 designated collection sites with the addition of five County libraries. Over 54,000 pounds of household batteries were collected.

### Home-Generated Sharps Waste Management Program

- Expanded the Home-Generated Sharps Waste Management Program to include partnerships with the Sheriff's, Public Health, Health Services, Community and Senior Services Departments, and other public/private organizations.
- Collected 30,000 pounds of sharps waste in 2010 reflecting a 50 percent increase in pounds collected in 2009.
- Doubled the number of sharps waste collection sites in 2010 to over 100 outlets Countywide.

- Distributed over 20,000 free sharps containers to residents.

## Permanent Centers

- HHW/E-Waste Collection Center: Over 12,000 households disposed 750,000 pounds of HHW and 800,000 pounds of E-Waste waste at the Antelope Valley Environmental Collection Center.
- Used Motor Oil Collection Centers: Operated 9 permanent free used oil collection facilities where residents disposed of their used motor oil and oil filters. Over 72,000 gallons of used oil were collected at the centers. An additional 56,000 gallons of used oil and over 3,600 gallons of used oil filters were collected at HHW/E-Waste mobile drop-off events.

## Conversion Technology

Public Works is the national leader in researching and evaluating safe and environmentally sound solid waste conversion technologies that are capable of turning municipal solid waste into useful products, renewable energy, and biofuels.

### 2009-2011 Highlights:

- Received Board approval in April 2010, to initiate the development of three conversion technology demonstration facilities in Southern California. The facilities will be the first of their kind in the United States and are important in establishing a process for State and local environmental permitting. Additionally, these demonstration projects will provide critical operating data, which will facilitate future commercial projects in Los Angeles County, which are capable of managing the County's waste stream.

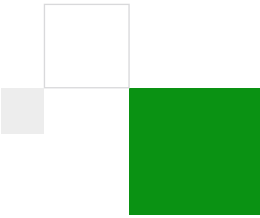
- Identified potential sites for commercial conversion technology facilities within the County. In January 2011, one of the demonstration projects, a proposed anaerobic digestion facility, received a \$4.5 million grant from the California Energy Commission to create transportation fuel from solid waste.
- Received over 23 site submissions for evaluation; additional sites continue to be identified.

## Solid Waste Policy and Legislative Analysis

Public Works tracked policy and legislation related to solid waste management for the County. Public Works reviewed and prepared analyses, recommended positions, wrote position letters regarding hundreds of proposed environmental bills, regulations, and policy issues and, in collaboration with the Chief Executive Office, actively supported the County's pursuit of environmental legislation.







## Solid Waste Management Fee

In accordance with County Code, Public Works collected the Solid Waste Management fee to fund costs incurred by the County in the preparation, maintenance, adoption and implementation of the Countywide Integrated Waste Management Plan, and conducted more than 40 audits of disposal sites, transfer/processing stations, and waste exporters.

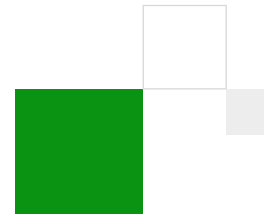
## School Education - Environmental Education

Generation Earth is a Public Works' environmental education program that provides training and ongoing support to secondary schools, students, and teachers throughout Los Angeles County. During 2009-2011, the program worked with more than 650 teachers, educating over 60,000 students at 370 schools.

Over 800 projects were completed, ranging from basic recycling projects to complex watershed restoration on campuses and in communities. The program encouraged students to explore solutions to environmental challenges they faced on their campus and within their community.

During this biennium, a new competition called the Streets to the Sea Challenge was implemented. The competition asked students to conduct watershed audits on their school campuses and develop a public education campaign based on the findings to promote stormwater pollution prevention. These campaigns were aimed at fellow students to increase awareness of local water pollution issues and promote behaviors that would reduce pollution entering the stream on campus. The top 10 schools were invited to share their campaigns at a recognition event held at Walt Disney Studios in Burbank, CA. A field trip to the Floating Lab in Long Beach, was awarded to the top high school, Franklin High School, and middle school, Westside Global Awareness K-8 Magnet.





### 2009-2011 Highlights:

- Hosted the annual Battle of the Schools Waste Reduction competition to encourage students to reduce the amount of waste going into landfills. Over 178,000 pounds of waste was diverted from landfills by 56 schools. In 2011, 60 schools diverted over 249,000 pounds of waste.
- Hosted the Streets to the Sea Challenge to promote stormwater pollution prevention. Twenty-four schools participated in the competition, impacting 41,500 students.

### Countywide Used Motor Oil and Filter Recycling Program

The Used Motor Oil and Filter Recycling Program is funded by the California Department of Resources Recycling and Recovery and aims to increase awareness of recycling used motor oil and filters at State-certified collection centers or County Household Hazardous Waste/Electronic Waste collection events.

During this biennium, the program's media campaign targeted Korean, Vietnamese, and Cambodian residents of Los Angeles County. Ads were broadcast on and published in Korean and Vietnamese television channels, radio stations, and newspapers. English, Spanish, and Chinese communities were also reached through television, radio, and print ads.

Community-based organizations and local businesses supported the program by distributing event flyers and including information on web banners and newsletters. Their efforts reached over 594,000 residents.

### 2009-2011 Highlights:

- Hosted 10 used motor oil collection events and 15 used oil filter exchange events. About 5,000 gallons of used motor oil and 2,000 used oil filters were collected.
- Continued partnerships with 43 O'Reilly stores throughout the County and collected over 64,700 used oil filters from the general public.





Acton – Agoura – Agua Dulce – Alondra Park – Alpine – Altadena – Antelope Acres – Athens – Avocado Heights – Baldwin Hills – Bandini – Bassett – Belvedere Gardens – Big Pines – Bouquet Canyon – Calabasas Highlands – Canyon Country – Castaic – Castaic Junction – Charter Oak – Chatsworth – Citrus – City Terrace – Cornell – Crystalaire – Deer Lake Highlands – Del Aire – Del Sur – Dominguez – Dominguez Hills – Eagle Rock – East Azusa – East Compton – East La Mirada – East Los Angeles – East Pasadena – East San Gabriel – East Whittier – Eastmont – Elizabeth Lake – Fairmont – Fernwood – Firestone – Florence – Forrest Park – Franklin Canyon – Gorman – Graham – Green Valley – Hacienda Heights – Hi Vista – Juniper Hills – Kagel Canyon – Kinneloa Mesa – La Crescenta – La Rambla – Ladera Heights – Lake Hughes – Lake Los Angeles – Lake View – Lang – Lennox – Leona Valley – Little Rock – Llano – Long View – Los Cerritos Wetlands – Los Nietos – Malibu Highlands – Malibu Lake – Malibu Vista – Marina Del Rey – Mint Canyon – Monte Nido – Montrose – Neenach – Newhall – North Claremont – Northeast San Dimas – Pearblossom – Placerita Canyon – Quartz Hill – Rancho Dominguez – Redman – Roosevelt – Rowland Heights – San Pascual – San Pedro – Santa Catalina Island – Saugus – Seminole Hot Springs – Soledad – South Monrovia – South San Gabriel – South San Jose Hills – South Whittier – Stevenson Ranch – Sulphur Springs – Sun Village – Sunshine Acres – Sylmar – Sylvia Park – Three Points – Topanga – Topanga Canyon – Triunfo Canyon – Twin Lakes – Universal City – Val Verde – Valencia – Valinda – Valyermo – Vasquez Rocks – Veterans Administrative Center – View Park – Walnut Park – West Arcadia – West Athens – West Carson – West Chatsworth – West Compton – West Pomona – West Puente Valley – West Whittier – Westfield – Westmont – White Fence Farms – Whittier Narrows Recreation Area – Willowbrook – Wilsonia Gardens – Windsor Hills – Wrightwood



# Transportation

“We provide safe, clean, efficient transportation choices and rights of ways to enhance mobility and quality of life.”

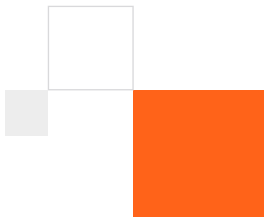
## ROADS AND TRANSPORTATION

Public Works protects the County's investment in streets and highways through regular maintenance, improvement projects, and emergency response. Efforts include pavement patching, litter and debris removal, resurfacing, reconstruction, slurry seal, guardrail repair, street sweeping, landscaped median maintenance, vegetation control, maintenance of dirt roads and bike paths, traffic signal maintenance, bridge inspection and maintenance, tree trimming, snow removal, curb painting, pavement striping and marking, parkway improvements, and maintenance of over 177,000 traffic and street name signs.

The Department is also responsible for the administration, engineering, and physical activities necessary to maintain nearly 5,000 miles of roadway infrastructure in the unincorporated areas and 15 cities that contract for road

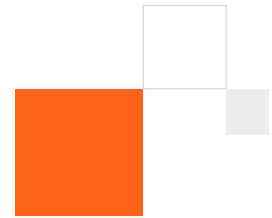
maintenance services. Public Works maintains 3,218 miles of unincorporated area roads.

In addition, Public Works maintains 100 miles of Class I bike trails along flood control channels and beaches. The Department is also responsible for nearly 20 miles of Class II bike lanes and 24 miles of Class III bike lanes designated along the roadways in the unincorporated County areas. In this biennium, the County drafted the Bikeway Master Plan to encourage the use of bicycling as a general means of transportation; enhance the safety of bicycle users; and provide guidelines for the development, expansion, and implementation of the County's bikeway system. The draft Plan will more than quadruple the amount of bikeways from 132 miles to over 800 miles within 20 years.



## 2009-2011 Highlights:

- Completed construction of the Interstate 5/Hasley Canyon Road Interchange Project, which included modern roundabouts on the east and west sides of the I-5 Freeway, a new bridge at Hasley Canyon Road over the I-5, realigning the northbound on- and off-ramps, southbound on- and off-ramps connecting to The Old Road and widening and seismically retrofitting the I-5 bridge over Castaic Creek. The \$40 million project greatly increased the capacity of the interchange and local roadways, improved mobility, enhanced safety, alleviated congestion and delay, and accommodated planned growth while minimizing impacts on surrounding properties.
- Received grant funds totaling nearly \$75 million to help fund 12 projects under the Los Angeles County Metropolitan Transportation Authority (Metro) 2009 Countywide Call For Projects (CFP), a competitive grant process used to rank and fund regionally significant transportation projects sponsored by local jurisdictions. Public Works also participated in Metro's 2011 CFP and submitted 24 applications for a total grant request of \$57.3 million.
- Completed major projects funded with over \$100 million State Proposition 1B transportation bond funds, including Figueroa Street, Compton Boulevard, Ulmus Drive, Myrrh Street, Union Pacific Avenue, Piuma Road, Montellano Landslide Mitigation project, and various roadway improvement projects within the unincorporated County.
- Completed 11 major projects funded with over \$40 million in American Recovery and Reinvestment Act of 2009 funds, including Avenue G, Angeles Forest Highway, Avenue N, Gorman Post Road, Emerald Necklace Rehabilitation, and various other projects within the unincorporated County.
- Began various construction improvements along Rosemead Boulevard from Foothill Boulevard to the northerly boundary of Temple City. The improvements included pavement rehabilitation, sidewalk reconstruction, curb ramps, sidewalk trees, median landscaping, parkway planters, street lights, traffic signal modifications, removal of utility poles, and placing utility lines underground. The total construction cost is estimated at \$28 million.
- Completed the seismic retrofit work for 33 bridges to enhance the safety of the motoring public. Major projects included 6th Street off-ramp over Shoreline Drive, 6th Street over Long Beach Freeway, Azusa Avenue over Valley Boulevard, Valley Boulevard over Old Valley, Soto Street over Los Angeles River, Oak Grove Drive over the Arroyo Seco and Flint Canyon Wash, and Queens Way over Shoreline Drive.
- Began construction of several landscaping projects throughout the unincorporated County area, such as 1st Avenue, Lambert Road, La Mirada Boulevard, and Mulberry Drive landscaping projects.
- Completed construction of Phase 1 of the Florence Avenue streetscape improvements from Central Avenue to the Metro Blue Line station east of Converse Avenue in the Florence/Walnut Park community. The project installed new sidewalk, landscaping, bus shelters, bicycle and pedestrian amenities, accent lighting, and community banners. The



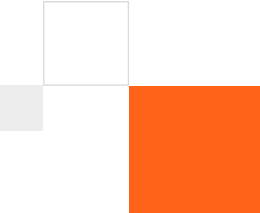
Phase 2 improvements began in summer 2011 and will be installed on both sides of Florence Avenue from the Metro Blue Line station west of Graham Avenue to Wilson Avenue and south side of Florence Avenue from Wilson Avenue to Mountain View Avenue.

- Began construction of Whittier Boulevard streetscape improvements from Burger Avenue to Atlantic Boulevard in East Los Angeles. The project consists of the installation of trees, decorative street lighting, monument clocks, bus shelters, benches, bike racks, paved crosswalks at Arizona Avenue, and curb ramps as well as sidewalk repairs.
- Completed the resurfacing and reconstruction of Cesar Chavez Avenue, Colima Road, and various roads in the County unincorporated communities of City Terrace, and South Whittier and within the Santa Monica Mountains.

- Completed the construction of Gage Avenue Park (El Parque Nuestro) in the County unincorporated community of Florence. The 0.63 acre neighborhood park includes playground equipment, exercise stations, open lawn areas, picnic tables and benches, decorative fencing, meandering jogging/walking paths, a vegetated bio-swale, drinking fountains, and solar-powered lighting.
- Provided construction inspection, design review, and design support to the Alameda Corridor-East Construction Authority for their grade separation projects in the San Gabriel Valley. The Authority completed the Brea Canyon Grade Separation, Sunset Avenue Grade Separation, and Temple Avenue Fourth Track (Train Diversion) projects.
- Coordinated Community Development Block Grant projects for construction of improvements to the Graham Elementary Trail, 8th Street







Reconstruction, Florence Avenue Improvements, Pomona Pedestrian Bridge, Florence-Firestone Landscaping Improvements Phase 2, and Alosta Bridge Rehabilitation projects, along with annual programs, such as code enforcement, debris removal, and graffiti removal.

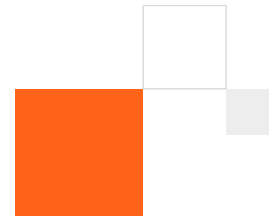
- Provided support to fire and emergency personnel during wildfires by clearing rocks, trees, and debris from the roadway and maintaining access within the perimeter of the burn area. Updated road closures on the Road Closure website. Assessed the damages caused by the fire to the roads and the supporting drainage infrastructures.
- Performed a review of 368 culverts and determined that 248 culverts located in burn areas needed significant improvements/cleaning to handle the expected mud/debris flows during subsequent storm seasons. Recommended the installation of trash racks and/or standpipes at 140 culverts locations. Installed about 9,600 lineal feet of K-rails on various roads within the burn area to keep mud/debris off the roadway.



Installed 5,300 lineal feet of K-rails along impacted roadways within the Foothill communities to protect the roadway from the inevitable debris flows subsequent to the 2009 Station Fire. About 26,800 lineal feet of burned guardrail were replaced on Angeles Forest Highway, Big Tujunga Canyon Rd, Upper Big Tujunga Canyon Road and Aliso Canyon Road.

- Assisted with recovery efforts during 2009-2010 storms that caused significant mud/debris flows damaging roadways within the Angeles National Forest. About 500,000 cubic yards of mud/debris were removed from roadway and culvert inlet areas. Assisted several communities in removing debris and mud flow, particularly in Altadena, La Crescenta and the City of La Canada Flintridge. Crews removed 13,000 cubic yards of debris from roadways, drains, and culverts within these communities and also removed 18,000 cubic yards of mud and debris from the Santa Monica Mountain area, allowing roadways to remain open to traffic.

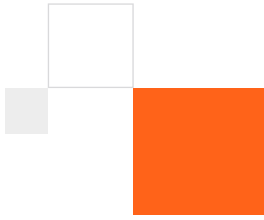




- Repaired four locations on Angeles Forest Highway and one location on Big Tujunga Canyon Road that had slope failure damage. Seven standpipes and two trash racks were also constructed on Angeles Forest Highway. In anticipation of mud and debris flows during rainstorms, crews installed six gates on roads within the burn area. Three additional pipe gates were also installed to better manage road closures within the fire-damaged area during rainstorms.
- With the use of Proposition 1B and Supervisorial Road District Funds, the Department completed 6.78 million square feet of chip seal projects in Lake Los Angeles, Pearblossom, Acton, Littlerock, Green Valley, Leona Valley, Elizabeth Lake, and other unincorporated areas at a cost of \$2.37 million. A total of 1.8 miles of roads within the Supervisorial District 3, known as Kittridge Tract, at \$274,000 and 110,080 square feet of slurry seal projects in East Los Angeles at a cost of \$170,000. We also Slurried 3.9 million square feet of pavement in the Rowland Heights area.
- Resurfaced and reconstructed 7.7 miles of pavement in the Hacienda Heights area (Countrywood Ave.). Also repaired sidewalks, ramps, and curbs; removed diseased/overgrown/destructive trees and replaced with young trees; and reconstructed concrete cross gutters.
- Completed \$210,000 in concrete work, such as sidewalk, curb and gutter, and driveway aprons as part of Supervisorial District 2's Special Road District (SRD) projects. Completed \$340,000 in concrete work, such as sidewalk, curb and gutter, driveway, and rail and timber walls as part of Supervisorial District 3's SRD projects. Installed a concrete bus pad and repaired concrete curb and gutter on Eastbound Florence Avenue at Beach Street. Installed

a concrete cross gutter on Dennison Street across Herbert Avenue as well as the replacement of 100 lineal feet of curb and gutter. Installed 92 lineal feet of concrete gutter on both sides of Cornishcrest Avenue from Ceres Avenue to Bamblebush Avenue. Installed 1,544 linear feet of concrete gutter on both sides of Bonavista Lane from Anola Street to South of Reis Street.

- Trimmed or removed 19,450 trees in the Santa Clarita, East Los Angeles, and Whittier areas at \$1,074,700. Inspected 18,000 trees in Supervisorial Districts 2, 3 and 4 and developed plans for the upcoming tree trimming contracts. Removed over 2,000 burned trees adjacent to the roadway and within the culvert inlet areas.
- Obtained Board of Supervisors approval for the tree maintenance job order contract with \$4 million capacity.
- Obtained Board of Supervisors approval for minor concrete job order contract with \$4 million capacity.
- Redesigned the street sweeping routes and schedules for the Valinda Corridor (West Valinda, Valinda, and South San Jose Hills). The new schedule coincides with new trash collection schedule and implements an alternate side sweeping schedule. This increased efficiency and resulted in cleaner streets by allowing the streets to be swept alternately following trash collection.



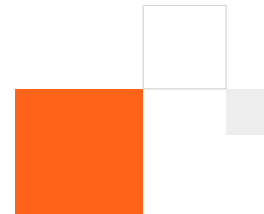
## Bridge Inspection and Maintenance

Public Works inspects and maintains 533 bridges within the County unincorporated area and inspects 1,168 city-owned bridges. The Department also acts as an agent for the State in conducting safety inspections and evaluations of 1,277 highway bridges listed in the National Bridge Inventory within Los Angeles County.

### 2009-2011 Highlights:

- Replaced the asphalt concrete pavement and deck of the Soledad Canyon Road over Santa Clara River Bridge to improve the driving surface while the County prepares for the future replacement of the bridge.
- Replaced the timber sticks and asphalt concrete pavement of two bridges on Little Tujunga Road to maintain the public safety.
- Removed 60,000 cubic yards of mud and debris that collected behind the Big Tujunga Road over Bryant Canyon Road Bridge during the January and February 2010 Storms.
- Conducted extensive repairs on the Shoemaker Bridge in the City of Long Beach. This \$800,000 project was funded by the Port of Long Beach and the City of Long Beach. The work included deck sealing, over 1,200 lineal feet of thrie-beam installation, guardrail repairs and installation, handrail repairs, sidewalk repairs, and striping.
- Replaced beams at two bridges in the City of Santa Clarita.
- Conducted deck sealing and concrete repairs at the Gerald Desmond Bridge and the Anaheim Street Bridge for the Port of Long Beach.
- Repaired extensive timber decks at bridges on Soledad Canyon Road, Little Tujunga Canyon Road, Hillside Drive, and Fitch Canyon Road.
- Conducted critical bridge and sidewalk repairs, including American with Disabilities Act (ADA) compliance work on the Telegraph Road over San Gabriel River Bridge for the City of Pico Rivera.
- Completed temporary concrete deck repairs and sidewalk repairs, including ADA compliance work on the Firestone Boulevard over San Gabriel River Bridge for the City of Downey.
- Applied special concrete placement/mix for the prevention of street deterioration on the Oakshire Street Bridge for the City of Los Angeles.
- Installed over 400 lineal feet of guardrail on the Brea Canyon Road Bridge for the City of Diamond Bar.





## TRAFFIC

### Unincorporated Areas

Public Works operates and maintains 1,828 traffic signals. Over 900 of these are wholly or partially owned by the County. The Department also administers about 117,000 street lights within 20 cities and unincorporated County areas.

#### 2009-2011 Highlights:

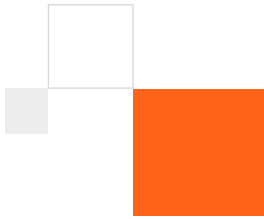
- Installed a new Mission Bell style street lighting system on Rosemead Boulevard from Foothill Boulevard to Fairview Avenue and from Fairview Avenue to North of Callita Street. Installed 31 new standard cobra head street lights on Duarte Road from 300 feet west of Rosemead Boulevard to 300 feet east of Oak Avenue.
- Installed over 56,000 new upgraded LED vehicle and pedestrian indications in all County-maintained traffic signals that are located in the South County region roughly bordered by the Angeles Forest to the north.
- Replaced over 1,250 mast arm mounted street name signs with new advanced technology reflectorized mast arm street name signs in all wholly County-owned and maintained signalized intersections that are located in the South County region roughly bordered by the Angeles National Forest to the north, which will significantly reduce expenditures associated with electrical usage and maintenance.

## Multijurisdictional Areas

### Traffic Congestion Relief

Since 1988, Public Works has been actively involved with traffic signal synchronization efforts involving 66 cities. As of April 2011, 126 projects were completed on 88 routes, representing 2,475 intersections. These low-cost projects improve traffic signal operations by upgrading each traffic signal to Federal and State standards, providing additional vehicle detection to enable operation as a fully traffic actuated signal, and installing components in each signal to allow time-based coordination. The final component of the traffic signal synchronization project is the development and implementation of synchronized traffic signal timing.





In addition, there are tremendous environmental benefits. Estimates show that Traffic Signal Synchronization reduced travel times by as much as 29 percent, and saved motorists \$387 million in vehicle costs, 26.3 million travel hours, 32.6 million gallons of fuel, and 11,400 tons of pollutants on an annual basis. In addition to Traffic Signal Synchronization, Public Works is a nationwide leader in the deployment of the Intelligent Transportation Systems (ITS). Since 1995, with substantial funding provided by Metro, Public Works administered the Regional Traffic Signal Forum Program. Under the Program, Public Works also administered ITS projects in three major geographic areas, each comprising of about 20 cities. The ultimate goal of the Program is to ensure that each agency participates in the effort to coordinate traffic signal timing to provide regional integration of the County's major arterials across multiple jurisdictions. The primary ITS component of the Program involves the deployment of traffic control systems for the cities. A traffic control system enables once-per-second monitoring of traffic signals. It also monitors the operation of the traffic signals and enables the detection of traffic signal equipment malfunctions, thereby facilitating a faster, more efficient maintenance response. Lastly, it has the capability of monitoring traffic conditions and collecting traffic data from loop sensors and video detectors.

#### **2009-2011 Highlights:**

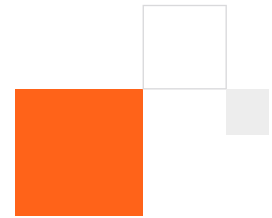
- Completed design and entered the construction phase for 15 traffic signal synchronization projects involving 313 intersections and 21 cities.
- Continued to install wireless communications at additional intersections Countywide to enable connection to the Traffic Management Center.

- Assisted in the procurement of a traffic control system for the Cities of Alhambra, Commerce, Diamond Bar, Gardena, Redondo Beach, San Dimas, South Gate, Torrance, and West Covina.
- Connected the traffic signals for the Cities of Baldwin Park, Carson, El Monte, Huntington Park, Industry, Lawndale, Lomita, Lynwood, San Gabriel, and Temple City to the County's traffic control system.
- Completed construction of fiber optic communications lines, which included the installation of 41 closed circuit television cameras throughout the County.
- Completed the installation of closed circuit television cameras at 16 key intersections in the cities of Diamond Bar, Industry, Claremont, San Dimas, and La Verne and the unincorporated County area of Rowland Heights.

### **Transit**

Public Works provides fixed-route transit services for the general public in Athens, East Los Angeles, Florence-Firestone, Lennox, Los Nietos, Avocado Heights, Bassett, West Valinda, East Valinda, Palos Verdes, South Whittier, Willowbrook, Walnut Park, Acton, Agua Dulce, and several unincorporated areas of the Santa Clarita and Antelope Valleys.

During the summer season, the Department provided transportation to the Hollywood Bowl from all over the County, operated shuttle services to the Ford Theater, and provided summer beach shuttle service.



## 2009-2011 Highlights:

- Introduced three new shuttle services in the communities of Athens, Lennox, Florence-Firestone, and Walnut Park on September 1, 2011. These community shuttle services improve the mobility of County residents, especially for seniors and families with children. Many residents use the shuttles to attend County park activities, shop at local stores, and commute to work. In addition, the services have reduced the number of car trips, resulting in a reduction of vehicle emissions.
- Completed the Lennox, Et Al, Transit Needs Study in late 2009. The Study evaluated the unincorporated County communities of Alondra Park, Athens, Baldwin Hills, Del Aire, East Rancho Dominguez (East Compton), El Camino Village, Firestone, Florence, Graham, Ladera Heights, Lennox,

Rancho Dominguez, View Park, Walnut Park, West Compton, Westmont, West Rancho Dominguez, Willowbrook, Wiseburn, and Windsor Hills to develop service recommendations or alternatives.

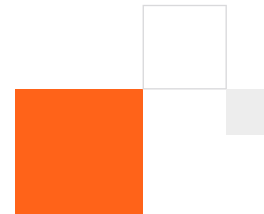
- Completed the Hacienda Heights, Et Al, Transit Needs Study in late 2010. The Study evaluated the unincorporated County communities of East Whittier, Hacienda Heights, North Whittier, and Rowland Heights to develop service recommendations or alternatives.





- Completed the Altadena, Et Al., Transit Needs Study in late 2010. The Study evaluated the unincorporated County communities of Altadena, East San Gabriel, East Pasadena, Kinneloa Mesa, La Crescenta, Monrovia-Arcadia-Duarte Islands, Montrose, North East San Gabriel, Royal Oaks, San Pasqual, and West Arcadia to identify transit needs and to develop service recommendations or alternatives.
- Completed the new bus layover facility at Rowan Avenue and Dozier Street in East Los Angeles in August 2009. The facility features a new restroom for bus drivers, covered passenger-waiting area, enhanced night-time lighting, and park-like setting.
- Expanded the El Sol Shuttle Service in November 2009 in anticipation of the grand opening of the Metro Gold Line Eastside Extension. The expansion included extended evening, weekend, and holiday service hours.
- Continued to partner with Playa Vista Parks and Landscape Corporation to provide free weekend community shuttle service to enhance the mobility and transit options for visitors and residents of Marina del Rey and Playa Vista, which helped towards reducing traffic congestion in Marina del Rey. This summer shuttle provided service between Marina del Rey, Playa Vista, and the Venice Beach Pier.





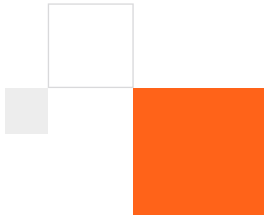
- Added a stop in Castaic for the Summer Beach Bus route that serves residents in the Santa Clarita Valley in summer 2010.
- Purchased 10 partially grant-funded propane-fueled cutaway vehicles for various transit services.
- Provided 296,000 paratransit trips for the elderly and individuals with disabilities in the unincorporated County areas.
- Through a private-public partnership program, provided transit users with cover at over 300 advertising display bus stop shelters throughout unincorporated County areas.
- Provided 330 nonadvertising bus stop shelters, 170 nonadvertising bus stop benches, and 800 trash receptacles at bus stops in unincorporated County areas.

## Aviation

Public Works oversees the operation, maintenance, and development of five general aviation airports: Brackett Field Airport in the City of La Verne, Compton/Woodley Airport in Compton, El Monte Airport in the City of El Monte, General William J. Fox Airfield in Lancaster, and Whiteman Airport in Pacoima. In this biennium, the Department completed design and construction projects totaling \$14 million.







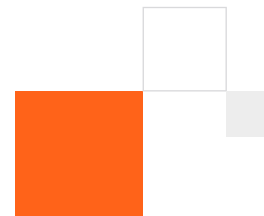
### 2009-2011 Highlights:

- Completed construction of El Monte Airport taxiway development project.
- Completed construction of Brackett Field Airport lighting and signage upgrade project.
- Completed the Compton/Woodley Airport apron ramp pavement rehabilitation project, funded by the American Recovery and Reinvestment Act.
- Completed the Master Plan Update for Whiteman Airport.
- Completed the slurry seal rehabilitation for Brackett Field Airport runway 8R/26L and south taxiway.
- Completed the slurry seal rehabilitation for El Monte Airport runway 1/19 and main taxiway.
- Completed the designs of the Brackett Field Runway 8L/26R and north taxiway.
- Commenced installation of the Automated Weather Observing Systems (AWOS) at Whiteman, El Monte, Brackett Field, and Compton/Woodley Airports.
- Commenced a Pavement Assessment project at the five airports.
- Commenced a Master Plan Study Update for General William J. Fox Airfield.



These capital projects are funded through a combination of Federal and State grants and Aviation Enterprise Funds, with no cost to the County General Fund.





## Fleet Management

Public Works is committed to providing safe, reliable, and cost-effective fleet services that meet operational needs and Southern California Air Quality Management District (SCAQMD) and California Air Resources Board (CARB) standards. In an effort to meet SCAQMD and CARB clean air requirements, Fleet Management continues to increase the number of alternative fuel vehicles and to retrofit on- and off-road diesel equipment. Fleet Management maintains approximately 3,000 pieces of mobile and stationary equipment. Given the expansive and diverse terrain of Los Angeles County and the wide range of services provided by Public Works, Fleet Management plays an integral role in ensuring that the appropriate equipment is always readily available, especially during emergency response situations.



Acton – Agoura – Agua Dulce – Alondra Park – Alpine – Altadena – Antelope Acres – Athens – Avocado Heights – Baldwin Hills – Bandini – Bassett – Belvedere Gardens – Big Pines – Bouquet Canyon – Calabasas Highlands – Canyon Country – Castaic – Castaic Junction – Charter Oak – Chatsworth – Citrus – City Terrace – Cornell – Crystalaire – Deer Lake Highlands – Del Aire – Del Sur – Dominguez – Dominguez Hills – Eagle Rock – East Azusa – East Compton – East La Mirada – East Los Angeles – East Pasadena – East San Gabriel – East Whittier – Eastmont – Elizabeth Lake – Fairmont – Fernwood – Firestone – Florence – Forrest Park – Franklin Canyon – Gorman – Graham – Green Valley – Hacienda Heights – Hi Vista – Juniper Hills – Kagel Canyon – Kinneloa Mesa – La Crescenta – La Rambla – Ladera Heights – Lake Hughes – Lake Los Angeles – Lake View – Lang – Lennox – Leona Valley – Little Rock – Llano – Long View – Los Cerritos Wetlands – Los Nietos – Malibu Highlands – Malibu Lake – Malibu Vista – Marina Del Rey – Mint Canyon – Monte Nido – Montrose – Neenach – Newhall – North Claremont – Northeast San Dimas – Pearblossom – Placerita Canyon – Quartz Hill – Rancho Dominguez – Redman – Roosevelt – Rowland Heights – San Pascual – San Pedro – Santa Catalina Island – Saugus – Seminole Hot Springs – Soledad – South Monrovia – South San Gabriel – South San Jose Hills – South Whittier – Stevenson Ranch – Sulphur Springs – Sun Village – Sunshine Acres – Sylmar – Sylvia Park – Three Points – Topanga – Topanga Canyon – Triunfo Canyon – Twin Lakes – Universal City – Val Verde – Valencia – Valinda – Valyermo – Vasquez Rocks – Veterans Administrative Center – View Park – Walnut Park – West Arcadia – West Athens – West Carson – West Chatsworth – West Compton – West Pomona – West Puente Valley – West Whittier – Westfield – Westmont – White Fence Farms – Whittier Narrows Recreation Area – Willowbrook – Wilsonia Gardens – Windsor Hills – Wrightwood



# Development Services

**“We help people build their dreams and ensure safe and healthy homes and communities.”**

## LAND DEVELOPMENT

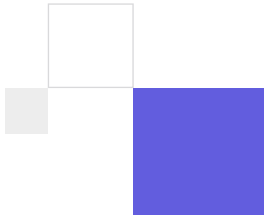
Public Works continues to provide broad-based, engineering services in the areas of transportation planning, subdivision plan checking, California Environmental Quality Act (CEQA) compliance, and permit issuance and inspection on road and flood right of way. Specifically, the Department provides technical review in the areas of hydrology, hydraulics, sanitation, grading, roadways, waterworks, and stormwater control.

The Department coordinates approximately 200 in-house CEQA reviews annually, including unincorporated private development and interagency projects within Los Angeles and other surrounding counties. Public Works is responsible for annually recording about 110 final maps of which about 45 involve easement, condition, and boundary verification. The Department processes and administers more than 700 tax bonds, subdivision agreements, and improvement securities annually, and also coordinates the transfer of miscellaneous drains from cities as well as private drains to the Flood Control District for operation and maintenance and provides contract mapping services for 45 cities in Los Angeles County. In addition, Public Works is at

the forefront of watershed management issues, which include installing structural Best Management Practices as well as review and approval of proposals to comply with stormwater quality requirements of the Regional Water Quality Control Board.

The downturn in the development industry has resulted in a lower number of development submittals as compared to years past. Public Works has taken a proactive approach to the downturn by reducing the number of staff involved in land development review and improving efficiencies so that the costs are kept in check, while maintaining a high level of service. In addition, the Department is working to implement policies and procedures to better streamline the entitlement process in an effort to soften the impacts of the downturn. These procedures include pilot programs for the electronic submittal, review, and return of plan checks; the creation of a web-based tracking system, used for monitoring of submittal status and productivity; and participation in various workgroups aimed at developing procedures to increase productivity and quality of service provided to the public.





## Public Road Right of Way/Flood Control District Use Permits

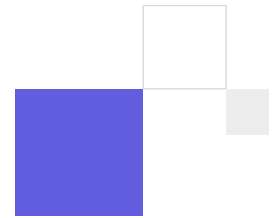
Public Works provides permit and inspection services for construction activities and transportation of oversized and overweight loads on public road right of ways and storm drain connections to Flood Control District facilities. Public Works also provides these services for the use of the roads and Flood Control District property for filming activities. We also oversee the placement of bus benches, news racks, banners and pennants, and debris containers. In addition, Public Works provides permit and inspection services for private and public drainage facilities, utility installations, and subdivision

improvements that may be transferred to the Department for ownership and/or maintenance. In this biennium, over 40,000 permits were issued for these activities.

### 2009-2011 Highlights:

- Developed various in-house technologies aimed at increasing efficiency and accountability, such as the development of a web-based tracking system and pilot programs for the electronic submittal and review of improvement plans.





- Conducted professional reviews of 1,600 hydrology maps, water, storm drain, landscape, grading, road, and sewer plans.
- Recorded over 220 final maps.
- Processed 1,400 tax bonds, subdivision agreements, and improvement securities processed.

## Survey/Mapping and Property Management

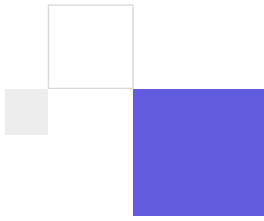
Public Works provides preliminary, construction, topographic, encroachment, litigation, and right-of-way survey support to other departments and local agencies, along with precise vertical, horizontal, and monument preservation surveys. Field crews utilize robotic instruments, digital levels, reflectorless total stations, and Global Positioning System (GPS) equipment to efficiently collect survey data. The Survey Public Counter library is the County's largest repository of horizontal and vertical survey records. The Record of Survey Section examines records of survey maps and corner records submitted to the County Surveyor by private surveyors and other public agencies in accordance with Sections 8762 (b) and 8773.2 (a) of the Professional Land Surveyors Act.

Also, Public Works provides County departments, other governmental agencies, and the public with real property services, information, and expertise; reviews permits concerning multiple use of Flood Control District and road rights of way; investigates and responds to claims and litigation against various Public Works entities; prepares documents for the acquisition,

quitclaim, and outgrant of real property rights; and provides a variety of mapping, title, and appraisal services.

### 2009-2011 Highlights:

- Performed geodetic surveys on Public Works' 14 major dams.
- Performed over 390 preliminary and over 150 construction surveys.
- Traversed over 300 miles of precise levels updating over 1,200 bench marks.
- Checked over 1,000 records of surveys and over 9,000 corner records.
- Added 118,000 documents, such as corner records and County Engineer, Road Department, and Public Works survey field notes to the Land Records Information (LRI) website.
- Updates to the LRI website included:
  - o Tract maps, parcel maps, records of surveys and field notes in a Geographical Information System (GIS) environment.
  - o Township plats, deed maps, patent maps, official maps, official record maps, highway dedication maps, County Surveyor maps, and miscellaneous record maps.



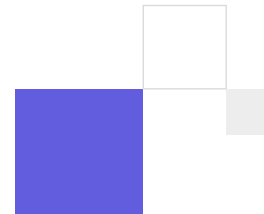
- Over the past 12 months, the LRI website averaged over 70,000 hits per month and averaged over 22 gigabytes of data transferred per month, which resulted in a drastic reduction in Public Counter traffic.
- Through collaboration between Public Works and the office of the Los Angeles County Registrar-Recorder/County Clerk, tract and parcel maps are available via the website within 72 hours of recordation and records of surveys are available within 2 weeks of recordation.
- Generated \$7,400,000 from real estate transactions (e.g. sales, grants of easements, rentals, and leases) affecting properties under the jurisdiction of Public Works.
- Recovered \$338,610 in costs through our real-property and auto-subrogation recovery efforts. These were costs associated with the replacement and/or repair of Public Works property, such as County

vehicles, traffic signals, fire hydrants, etc., that were damaged by another party.

- Created a departmental dashboard for claims and litigation with maps and geographic-based information on the frequency and character of claims and litigation filed. This dashboard improved the tools to further assist in the wide identification and evaluation of risks and the development, selection, and implementation of control and corrective measures to lessen the probability of harmful consequences.
- Received, coordinated, and responded to 453 formal Public Record Act requests.
- Processed the annexation of nearly 10,000 acres to the Consolidated Sewer Maintenance Districts by reviewing and commenting on maps and proposed boundaries, preparing legal descriptions, and filing with the State Board of Equalization. These annexations generated \$542,000 in revenue for Public Works.
- Processed the annexation of over 1,000 acres to the County Lighting Maintenance Districts, which required preparing legal descriptions and maps and filing with the State Board of Equalization.
- Completed the mapping/updating of 370 annexations for 23 cities using GIS technology.
- Uploaded all Substructure Maps to the Public Works Internet website reducing customer inquiries by approximately 90 percent.







- Completed mapping and updating 186 Lighting District boundaries using GIS technology.
- Created a new comprehensive Project Tracking System (PTS) Dashboard that provides information on the status and cost of the property acquisition phase of road and flood control improvement projects. The PTS Dashboard replaced multiple, separate databases that required duplicate data entry. This dashboard is used by right-of-way identification and mapping personnel, title examiners, property appraisers, real estate agents, and project managers involved with property acquisition.
- Converted the Public Works Computer Aided Design (CAD) landbase to a seamless GIS format and merged it with the County Assessor's landbase. The resulting combined landbase allows for spatial adjustment to new field survey control points, reduces redundant mapping efforts, and provides a single base for a wide variety of County GIS data, such as infrastructure assets, political districts, house numbers, property lines, easements, and city boundaries. Over 1,500 survey control points were obtained and used for spatial adjustments.
- Assigned 456 addresses for new subdivisions and processed 65 address change requests.
- Completed 65 right-of-way study maps for road and flood construction-related projects.
- Completed 800 GIS map requests and produced 4,018 map sheets. This included 165 GIS map requests from deputies of the Board of Supervisors.



Acton – Agoura – Agua Dulce – Alondra Park – Alpine – Altadena – Antelope Acres – Athens – Avocado Heights – Baldwin Hills – Bandini – Bassett – Belvedere Gardens – Big Pines – Bouquet Canyon – Calabasas Highlands – Canyon Country – Castaic – Castaic Junction – Charter Oak – Chatsworth – Citrus – City Terrace – Cornell – Crystalaire – Deer Lake Highlands – Del Aire – Del Sur – Dominguez – Dominguez Hills – Eagle Rock – East Azusa – East Compton – East La Mirada – East Los Angeles – East Pasadena – East San Gabriel – East Whittier – Eastmont – Elizabeth Lake – Fairmont – Fernwood – Firestone – Florence – Forrest Park – Franklin Canyon – Gorman – Graham – Green Valley – Hacienda Heights – Hi Vista – Juniper Hills – Kagel Canyon – Kinneloa Mesa – La Crescenta – La Rambla – Ladera Heights – Lake Hughes – Lake Los Angeles – Lake View – Lang – Lennox – Leona Valley – Little Rock – Llano – Long View – Los Cerritos Wetlands – Los Nietos – Malibu Highlands – Malibu Lake – Malibu Vista – Marina Del Rey – Mint Canyon – Monte Nido – Montrose – Neenach – Newhall – North Claremont – Northeast San Dimas – Pearblossom – Placerita Canyon – Quartz Hill – Rancho Dominguez – Redman – Roosevelt – Rowland Heights – San Pascual – San Pedro – Santa Catalina Island – Saugus – Seminole Hot Springs – Soledad – South Monrovia – South San Gabriel – South San Jose Hills – South Whittier – Stevenson Ranch – Sulphur Springs – Sun Village – Sunshine Acres – Sylmar – Sylvia Park – Three Points – Topanga – Topanga Canyon – Triunfo Canyon – Twin Lakes – Universal City – Val Verde – Valencia – Valinda – Valyermo – Vasquez Rocks – Veterans Administrative Center – View Park – Walnut Park – West Arcadia – West Athens – West Carson – West Chatsworth – West Compton – West Pomona – West Puente Valley – West Whittier – Westfield – Westmont – White Fence Farms – Whittier Narrows Recreation Area – Willowbrook – Wilsonia Gardens – Windsor Hills – Wrightwood

# Emergency Management

“As public safety partners and first responders, we maintain a highly trained and equipped workforce to respond and recover from daily incidents, local emergencies, and major disasters.”

## EMERGENCY PREPAREDNESS

Public Works is committed to responding quickly and effectively in the event of fires, storms, and other disasters and emergencies affecting the County's infrastructure. In 2010, Public Works planned and participated in the Countywide Operation Golden Phoenix exercise, which tested the County's response to a terrorist event in the Los Angeles metropolitan area.

Public Works also served as the lead County department conducting Damage Assessment and Construction/Engineering Recovery activities and had a lead role in responding to major emergencies.

During this biennium, Public Works collaborated with the Office of Emergency Management to install Tsunami evacuation signs in the unincorporated area of Marina Del Rey and pilot coastal cities.

In addition, Public Works ensured personnel were trained to maintain its constant state of readiness. Staff completed the County-mandated Disaster Service Worker training for emergency response support during a disaster.





## Winter Rainstorm Recovery

In fall 2009, massive wildfires ravaged the Angeles National Forest, including the Station Fire, which became the biggest wildfire in the County's history and the 10th biggest in California. The fire destroyed more than 163,000 acres of forest and 70 properties, damaged 47 miles of County roads, and caused the deaths of two Los Angeles County firefighters. In the aftermath, Public Works repaired damaged facilities and prepared for a resulting new threat – storm season mudslides and debris flows.

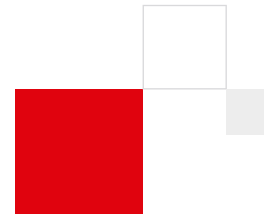
In collaboration with the Fire and Sheriff's Departments, Public Works also developed the Coordinated Agency Recovery Effort (C.A.R.E.), an unprecedented, innovative, and revolutionary communications model that used the combined expertise of multiagency communications specialist to

deliver life-saving safety messages, build public and media support and recognition for the County's efforts, and educate the public about public works functions.

C.A.R.E. partners also included the County Office of Emergency Management, the U.S. Forest Service, U.S. Geological Survey, the National Incident Management Organization, the National Weather Service, the California Department of Transportation (Caltrans), the American Red Cross, and the City of Los Angeles.

Program elements and resources included community meetings, storm preparation materials, a C.A.R.E. Website ([www.dpwcare.org](http://www.dpwcare.org)), the eNotfy system, public service announcements, social media, and media releases and interviews.





This outreach program resulted in extensive and supportive media coverage throughout the winter season, a new awareness of the vital role and function of Public Works as a first responder, greater awareness of the flood control system and, most importantly, no loss of life or injuries and little property damage despite several severe storm events.

Public Works continued to work closely with the Federal Emergency Management Agency and Federal Highway Administration officials to maximize potential disaster assistance revenue. The total fire damage recovery expenditures were \$20 million with anticipated reimbursement of \$10 million. The subsequent 2010 winter rainstorm recovery expenditures were \$137 million with anticipated reimbursement of \$105 million.

## Graffiti Abatement

Under the Board's direction, the County established a Graffiti Abatement Program that consists of education, eradication, and enforcement. Public Works

carries out the education and eradication component while the Sheriff's Department handles the enforcement component. Public Works oversees over 20 graffiti removal contracts in over 300 miles of flood control channels and over 80 County unincorporated areas. Public Works also provides public awareness by participating in community, task force, and neighborhood meetings and youth education by visiting elementary and middle schools to teach them about the consequences of engaging in graffiti vandalism.

Public Works also works in partnership with law enforcement to provide graffiti removal information, including photographs and costs associated with graffiti removals to assist them in apprehending graffiti vandals.

Annually, Public Works receives approximately 30,000 calls identifying more than 35,000 locations for graffiti removal. Public Works uses a state-of-the-art Graffiti Abatement Referral System to instantly report graffiti. We encourage constituents to report graffiti online at [www.dpw.lacounty.gov/go/graffiti](http://www.dpw.lacounty.gov/go/graffiti), by using the brand new iPhone application or by calling the graffiti hotline at 1(800) 676-4357.





# Workforce

Public Works is committed to employee excellence in its diverse workforce comprised of 3,400 employees in over 500 different job classifications, including a large professional engineering staff (22 percent) and a large number of field workers (29 percent). Employees represent 70 different countries, speak 27 different languages, and belong to at least 58 different ethnic groups. This wealth of diversity in cultural perspectives contributes to our effectiveness in delivering critical services that protect and enrich the daily lives of over ten million people in Los Angeles County.

Employee excellence is continually developed through new challenges and continuous learning. Bonuses are given to encourage and reward licensing in engineering specialties. In addition, the Department provided reimbursement for Professional Engineer License exam preparation expenses for Civil Engineers to encourage Civil Engineering Assistants to obtain their State Professional Engineer license. Employees also participated in professional organization annual conferences and trainings to renew their technical licenses. The Department continues to partner with local universities to provide on-site degree programs, including a Master's of Public Administration.





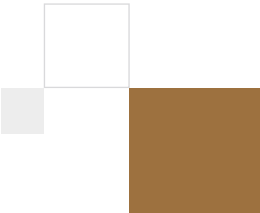
Another important area of focus for employee excellence is the comprehensive safety program for field and office employees. Extensive safety training is provided through on-the-job and formal programs. Safe work histories are promoted with the annual Safety Awards Program, which recognizes over 1,200 employees for safe driving and no-lost time due to industrial accidents. In addition, multiple Safety Committees ensure employees are provided with updated safety equipment and work procedures.

At Public Works, we foster an inclusive culture by acknowledging the unique experiences and perspective that all our employees bring to work. Our diversity goals are linked to our newly revised Strategic Plan and aligned with our values of Safety, Integrity, Teamwork, Transparency, Excellence and Our Employees, and Sustainability.

## Diversity Council

Since its formation in 2005 as part of the Values Management Program, the Diversity Council has sought to enhance diversity awareness, knowledge, and skills through many different forums and programs. From annual ethnic heritage celebrations, the Holidays Around the World event, the Intranet Learning Link site, and the Diversity Café to Brown Bag Diversity Forums on career awareness, generational diversity, cross-gender and equal opportunity issues, the Council helps create a sense of belonging and builds bridges of unity among different employee groups within the Department. In addition, the Council's employee affinity groups conduct community outreach activities and raise funds for scholarships and to support international disaster and relief efforts.





Numerous cultural and educational events were held by active Employee Affinity Groups, which include:

- African-American Engineers and Professional Employees Association
- Black History Committee
- Filipino-American Public Works Employees Association
- International Committee
- Latino Heritage Committee
- Armenian-American Employee Group
- Iranian-American Employee Group
- Public Works Women's Leadership Council
- Diversity Council Forums
- Field Council

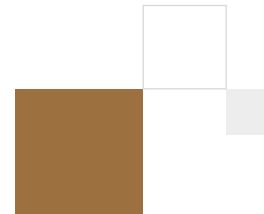


## Field Council

The Field Council was created to build respect, improve communication, promote approachability, create a greater sense of inclusion, and support career development for all field employees. The Council initiated the development of a Career Path Manual, consulted with Human Resources to educate field employees on a variety of topics, and secured support from Information Technology Division to facilitate the use of computers and access to Public Works' Intranet in the Field. The Field Council also established communication and agreement to work together with the Women's Leadership Council to combine forces in working on field-related issues.







## Public Works Women's Leadership Council

The Women's Leadership Council hosted the first annual Women's Leadership Legacy Conference for over three hundred attendees in 2010. The enthusiastic response to the first conference inspired an even more ambitious and successful leadership conference for over 600 attendees in 2011. The Council is committed to bringing the County family together to empower, network, and educate our leaders. Additionally, the Council established a networking relationship with the County of Los Angeles

Commission for Women. Another program initiative was the Field Outreach Program to communicate about the Council's purpose, activities, and available resources to field personnel. The Council launched a new Website on the Public Works Intranet to provide an online access to information about the Council and to increase the efficiency of communication with all employees. The Council also hosted the Speaker Circuit Series through Brown Bag Luncheons that serve as educational events and networking opportunities for our employees. The Council continues to develop and promote projects that encourage the personal and professional growth and advancement of all employees at Public Works.





# e-Government

Public Works continues to provide a comprehensive array of innovative e-Government solutions to meet the ever-growing demands of customers. Through Internet and Intranet websites and mobile phone applications, Public Works continues to expand its reach and accessibility of services. The Internet site, [www.dpw.lacounty.gov](http://www.dpw.lacounty.gov), alone received over 1.5 million visits per year. Public Works is also focused on expanding its new iPhone application and mobile web domain, which enables constituents to submit and track service requests from their iPhone and smart phone devices.

## 2009-2011 Highlights:

- iPhone Application – Developed The Works, a free application that allows the public to request and track pothole repairs, graffiti removal and street sweeping, and report illegal dumping. Developed by the Department's own Information Technology Division, The Works has an optional feature to upload photographs to help identify the service request and provides appropriate contact information if the request is not within the County's jurisdiction. It also keeps users up-to-date with the latest news on County road closures and recycling events and can locate other County services in the area.





- My Waterworks Account Manager (MyWAM) – Launched MyWAM, which enables Waterworks District customers to make water bill payments online with credit cards and allows for viewing and receiving electronic billing information. Customers can also sign up for auto pay using checks or credit cards.
- Go Mobile with Public Works (m.dpw.lacounty.gov) - Launched PW Mobile, a new website designed to deliver services and information customized for Android, BlackBerry, and other smart phone devices.
- Social Network Application (SNAP)/TWITTER – Developed SNAP to centralize, streamline, and automate the tweeting and posting process for several Public Works twitter accounts (i.e., @DPW, @DPWCare, @LACoSurveyor, and @DPWRoads). SNAP interfaces with Twitter to automate notifications to the public, including road closures and County Surveyor. For recordation notifications, there is no longer the eight-week wait; notification takes place as soon as it is recorded via SNAP, which automatically picks up the recordation and sends out a tweet.
- Mobile Graffiti Abatement Referral System (mGARS) - Developed this mobile web application for the public and inspectors to report graffiti using their mobile devices/Blackberries. Public Works inspectors now report graffiti incidents in real time as they monitor the progress of graffiti clean-up in their assigned areas. This new process has resulted in quicker graffiti removal since the reported incident is sent immediately to contractors.

- Construction Related Opportunities – Developed the contracting opportunities website for contractors/proposers/bidders to review and download Requests for Proposals (RFP's) and Bid Documents thereby eliminating the need for physical travel to Public Works' Headquarters to obtain hard copies.
- Simple Permits Application and Tracking System (SPATS) – Enhanced SPATS, which issues and tracks online transportation and service cut permits, by adding insurance requirements and notifications, new reports, an inspector list, and Google-like search capabilities.
- Building Permit Viewer (BPV) – Developed this application, which enables the public to view parcel information using GIS technology and search for building permits via the web.

dpw.lacounty.gov

## Solid Waste Information Management System

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

[Home](#) | [Facility Locator](#) | [Trash Collection](#) | [Methane Mitigation](#) | [Disposal Data](#) | [Contact Us](#) | [FAQ](#) [Log In](#)

**Log In**  
User ID:   
Password:   
[Forgot User ID / Password?](#)  
[Log In](#)

**I want to...**

- [Find a waste hauler](#)
- [Find a nearby landfill](#)
- [Locate a solid waste facility](#)
- [Submit disposal data](#)
- [Find out how much trash goes to landfills](#)
- [Check if my property needs methane mitigation](#)

**Ever wonder where your trash goes?**

SWIMS shares information about solid waste management activities in the County, empowering people to make environmentally sustainable choices in managing waste.

**News & Announcements**

[New Commercial Trash Collection Franchise](#)

**Publications**

• [New and Improved Commercial Solid Waste Collection Franchise](#)

- Building & Safety Internet Website – Provided building and safety information, such as building codes and permit fees to the public and contractors. The website also includes the Report a Violation (RAV) system that was recently improved to enable anyone to report building or property code violations.
- Los Angeles County Materials Exchange (LACoMax) – Created this application to help residents, businesses, organizations, and institutions find alternative methods to dispose of valuable materials, which are discarded as waste. It is a free Countywide service with the overall goal to conserve landfill space and recycle materials.
- RethinkLA – Launched this website to provide residents with valuable environmental information on how to reduce, reuse, and recycle waste.
- Termino Avenue Drain Website – Created this website to help residents, businesses, and contractors obtain information regarding road closures, the project schedule, and other important facts about the project.
- Los Angeles County Flood Control District Website – Developed this website to provide residents living within the Los Angeles County Flood Control District with important information, including access to available reports, studies, maintenance schedules, and watershed maps.

- Solid Waste Information Management System V – Developed this award-winning web-based system ([www.LACountySWIMS.org](http://www.LACountySWIMS.org)) to track 18 million tons of trash disposed of by the 89 jurisdictions in the County over the biennium, providing mandated disposal information to over 300 jurisdictions in their solid waste management planning.
- Clean LA Website – Revamped this site with a new look and streamlined for easier navigation. It is a portal to a number of award-winning programs that help residents, businesses, and governments keep the County clean and sustainable.
- Job Information & Job Track – Consolidated all Public Works related job openings onto one website to make it easier for applicants. Students can also find information on internship opportunities involving various disciplines, such as Civil Engineering and Information Technology. This website links to the County's job portal website where interested candidates can submit applications online.





- Coordinated Agency Recovery Effort (C.A.R.E.) – Developed the C.A.R.E. portal to centralize communications and provide accurate, consolidated, and timely emergency-related information to supporting agencies and the public.
- eNotify Alert System – Enhanced eNotify to enable the public to download events to their Outlook calendars, refer a friend, send reminders through mobile devices, and provide seamless integration with other systems. eNotify is an e-mail and text messaging notification system that provides Los Angeles County residents with immediate information on emergency notifications, such as road closures; debris and mudflow forecasts; and scheduled events like Household Hazardous Waste collections, task force meetings, and many other Public Works events.
- Interactive Customer Inquiry System (ICIS) – Enhanced ICIS, an FAQ database for County residents to find answers to their questions by incorporating Google maps and geo-coding technology to help identify the reported problem area. This ensures that issues are accurately routed to Public Works or to the appropriate responsible agency.
- City Services Request Tracking System – Enhanced the application to include available services for cities, added workflow approval processes, route requests directly to the responsible operating divisions, and redesigned the site to make it more user friendly. This system provides a simple method for the 88 contract cities within the Los Angeles County to submit a Request for Service with Public Works.

- Bid Price History – Created this application that tracks historical pricing of engineering projects, which is used to provide cost estimates for future projects. Published Public Works construction bid price history to help contractors stay competitive and find the average cost of construction items before bidding on a project.
- Road Closures Website – Redesigned this website to enable the public to view closed roads within the unincorporated area of Los Angeles County using an interactive Google Maps based system.
- Scanned/Digitized Maps – Scanned and digitized approximately 99,000 maps and made them available to the public online.



# FINANCES

For Fiscal Years 2009-2010 and 2010-2011, Public Works had an average annual operating budget of \$1.987 billion. The budget is composed of 113 separate funds that finance about 453 operating functions. Over 98 percent of our revenues are restricted to specific uses. This leaves \$39.9 million annually (slightly less than 2 percent) of unrestricted funding to implement Board of Supervisors' defined critical services and needs.

<b>EXPENDITURES &amp; ENCUMBRANCES</b> (in millions)	<b>FY 2007-08</b>	<b>FY 2008-09</b>	<b>FY 2009-10</b>	<b>FY 2010-11</b>
<b>PER FISCAL YEAR:</b>				
ROADS AND HIGHWAYS	\$266	\$295	\$329	\$286
FLOOD CONTROL AND DRAINAGE	253	243	267	218
WATER SYSTEMS	65	88	82	72
SEWER SYSTEMS	35	35	36	39
WASTE MANAGEMENT	42	43	44	46
TRANSIT SYSTEMS	21	24	19	20
LIGHTING DISTRICTS	26	27	27	28
DEVELOPMENT REGULATION	57	60	50	52
SERVICES FOR OTHERS	1	0	0	0
CAPITAL PROJECT MANAGEMENT *	12	0	0	0
MISC - GENERAL AVIATION	6	4	13	4
MISC - BIKEWAY PATH	1	2	1	1
ISF - CAPITAL PROJECT MANAGEMENT *	0	37	36	39
ISF - REIMBURSABLE SERVICES	4	7	5	4
ISF - SERVICES TO OTHER PW FUNDS	400	383	391	409
<b>TOTAL</b>	<b>\$1,189</b>	<b>\$1,248</b>	<b>\$1,300</b>	<b>\$1,218</b>

<b>EXPENDITURES &amp; ENCUMBRANCES (in millions)</b>	<b>FY 2007-08</b>	<b>FY 2008-09</b>	<b>FY 2009-10</b>	<b>FY 2010-11</b>
<b>PER BIENNIAL REPORT:</b>		<b>FY 2007-09</b>		<b>FY 2009-11</b>
ROADS AND HIGHWAYS		\$561		\$615
FLOOD CONTROL AND DRAINAGE		496		485
WATER SYSTEMS		153		154
SEWER SYSTEMS		70		75
WASTE MANAGEMENT		85		90
TRANSIT SYSTEMS		45		39
LIGHTING DISTRICTS		53		55
DEVELOPMENT REGULATION		117		102
SERVICES FOR OTHERS		1		0
CAPITAL PROJECT MANAGEMENT		12		0
MISC - GENERAL AVIATION		10		17
MISC - BIKE PATH		3		2
ISF - CAPITAL PROJECT MANAGEMENT		37		75
ISF - REIMBURSABLE SERVICES		11		9
ISF - SERVICES TO OTHER PW FUNDS		783		800
<b>TOTAL</b>		<b>\$2,437</b>		<b>\$2,518</b>
<b>REVENUES (in millions)</b>	<b>FY 2007-08</b>	<b>FY 2008-09</b>	<b>FY 2009-10</b>	<b>FY 2010-11</b>
<b>PER FISCAL YEAR:</b>				
TAXES	\$164	\$168	\$167	\$169
INTEREST, RENTS, & ROYALTIES	39	29	20	20
INTER-GOVERNMENTAL	299	248	308	352
CHARGES FOR SERVICES	742	751	740	735
MISCELLANEOUS	6	8	5	5
<b>TOTAL</b>	<b>\$1,250</b>	<b>\$1,204</b>	<b>\$1,240</b>	<b>\$1,281</b>
<b>PER BIENNIAL REPORT:</b>		<b>FY 2007-09</b>		<b>FY 2009-11</b>
TAXES		\$332		\$336
INTEREST, RENTS, & ROYALTIES		68		40
INTER-GOVERNMENTAL		547		660
CHARGES FOR SERVICES		1,493		1,475
MISCELLANEOUS		14		10
<b>TOTAL</b>		<b>\$2,454</b>		<b>\$2,521</b>
*Effective in Fiscal Year 2008-09, the Capital Project Management was made part of the Internal Service Fund.				





# STATISTICS

## A WORKLOAD SAMPLING

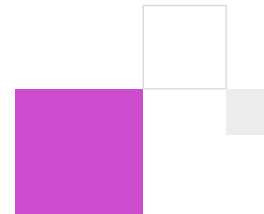
### Public Building

- Capital Projects completed: 41 capital projects valued at approximately \$232 million
- Capital Projects managed: 161
- Value of Capital Projects managed: \$2 billion

### Water Resources Management

- Major dams operated and maintained: 14
- Crib dams maintained: 183
- Debris retention structures: 423
- Debris Basins: 162
- Sediment placement sites: 27
- Miles of open channels maintained: 487
- Miles of storm drains maintained: 3,073
- Catch basins maintained: 81,526
- Storm water pumping plants operated and maintained: 57

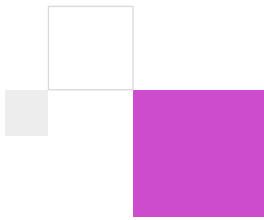
- Stream gauging stations: 62
- Low-flow diversion structures operated and maintained: 23
- Spreading Grounds operated and maintained: 27
- Seawater intrusion barriers operated and maintained: 3
- Two Sewer Maintenance Districts serving 2.3 million people in unincorporated areas and 41 cities.
- Miles of sewers: 4,600
- 85 County-owned pump stations and 69 City-owned but County-maintained pump stations.
- Annual Budget: \$60.2 million, financed through sewer service charges.
- Operate and maintain three sewage treatment plants in the Malibu area.
- Operate and maintain one sewage treatment plant in the Lake Hughes area
- Water storage reservoirs: 122
- Water wells: 54
- Booster pumps and pressure regulating stations: 137
- Miles of water mains maintained: 1,374



## Waste Management

- Outreach events to promote recycling: Over 150 events
- Pounds of household hazardous waste/electronic waste collected: 11.7 million
- Pounds of waste tires collected: 1.2 million
- Gallons of used oil collected: 128,000
- Used oil filters collected: 3,600
- Pounds of home-generated sharps: 30,000
- Free reusable bags distributed: 100,000
- www.888CleanLA.com website hits: 1.39 million
- Trash flows tracked on [www.LACountySWIMS.org](http://www.LACountySWIMS.org): 18 million tons
- 1(888)CLEAN LA hotline calls: 86,535
- Generation Earth Program: reached more than 650 teachers, educating about 60,000 students at 370 unique schools impacting over 487,000 students
- Used Motor Oil and Filter Recycling Campaign: collected 71,709 used oil filters and 5,028 gallons of used motor oil





## Transportation

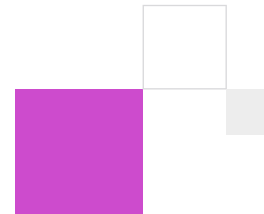
- Road expansion projects: 131
- Miles of unincorporated area roads maintained: 3,218
- Miles of roads maintained (cities): 1,100
- Feet of curb paint maintained: 601,009
- Miles of traffic lane striping maintained: 4,135
- Square feet of pavement markings maintained: 1.48 million
- Traffic signs maintained: 122,084
- Street name signs maintained: 55,000
- Raised traffic markers maintained: 308,527
- Traffic signals maintained: 1,828
- Street, bridge, and tunnel lights maintained: 1,371
- Number of parkway trees: 186,000 maintained
- Average number of trees trimmed each year: 35,000
- Curb miles swept annually: 182,000
- Road shoulder pass miles graded annually: 16,200
- Tons of AC used for pavement patching annually: 5,700
- Cubic yards of litter and debris removed annually: 61,000
- Highway safety lights and mast arm mounted street name signs maintained: 12,520

- Miles of Class I Bike paths maintained: 100
- Miles of Class II Bike paths maintained: 20
- Miles of Class III Bike paths maintained: 24
- Square Yards of landscaped medians maintained: 397,800
- Aircraft based at Public Works airports to date: 1,756
- Airport takeoffs and landings: 828,496
- Gallons of aviation fuel sold: 2,957,777
- Airport operations inspections conducted: 450
- Federal and/or State grants administered: 22

## Development Services

- Building Permits issued: 27,000
- Construction value of building permits issued: \$3.6 billion
- Special Districts created for lighting and sewer operations: 220
- Projects involving flood control rights and/or quitclaims: 220
- Private drains transferred to the Flood Control District: 56
- New addresses for new subdivisions: 350
- New addresses for non subdivisions: 570
- Change of address requests processed: 60





- Professional reviews of hydrology maps, water, storm drain, landscape, grading, road, and sewer plans: 3,600
- Maps recorded annually: 110
- Tax bonds, subdivision agreements, and improvement securities processed: 700
- Preliminary surveys conducted: 400
- Records of Survey checked: 1,000
- Specialty mapping projects completed: 4,100
- Lease and rental agreements managed: 300
- Revenue generated from lease/rental property sales: \$6 million
- Customers served at Survey Public Counter: 3,600

## Information Technology

- Website visits per year: over 1.5 million
- Developed iPhone application to enable citizens to take pictures of graffiti, potholes, and other issues and submit directly to Public Works.
- Received over \$45,000 rebate from Southern California Edison for the deployment of a desktop power management solution and server virtualization, which has resulted in approximately \$72,000 annually in energy savings.

- Received an \$880,000 grant from the American Recovery and Reinvestment Act for the Server Consolidation and Virtualization project, which will result in \$700,000 in energy savings and cost avoidance over a five-year period.
- Created the below Twitter accounts to instantly inform constituents of Public Works events:
  1. LAPublicWorks (since 5/09/2009) – Over 540 followers
  2. LACoSurveyor (since 5/25/2010) – Over 185 followers
  3. DPWCARE (since 1/25/2010) – Over 200 followers
  4. DPWRoads (since 1/20/2010) – Over 300 followers
- Enhanced Public Works website and made it mobile friendly (m.dpw.lacounty.gov- 400 visits/year).
- Managed and maintained over 300 applications/systems supporting the public and the Department's business units.



# AWARDS & RECOGNITION

## NATIONAL ASSOCIATION OF COUNTIES ACHIEVEMENT AWARDS

### **2011 National Association of Counties (NACO)**

- Annual Women's Leadership Council Conference Series
- EIR for Ordinances to Ban Plastic Bags
- LACo Surveyor Program
- Report a Violation
- ShakeCast: Earthquake Monitoring and Damage Assessment System

### **2010 National Association of Counties (NACO)**

- City Service Request Tracking System
- Interactive Customer Inquiry System
- Interstate 5/Hasley Canyon Interchange Project
- Marie Canyon Water Quality Improvement Project
- Sanitary Sewer Assessment System

### **2009 National Association of Counties (NACO)**

- Dominguez Gap Wetlands Multiuse Project
- Field Ergonomic Training Video
- Permitting a Landfill in an Urban County – The Sunshine Canyon Landfill
- Polymer – Modified Asphalt Surface Sealer – (PASS) Chip Seal Project
- Tujunga Wash Greenway and Stream Restoration
- Values Management
- Wireless Traffic Management
- Women's Leadership Council

## PRODUCTIVITY AND QUALITY AWARDS

### 2011 – 25th Annual Productivity and Quality Awards

- Mega Million Dollar Award: Groundwater Recharge
- Top Ten: The Coordinated Agency Recovery Effort (Collaboration with Sheriff's and Fire Departments)
- Special Merit Plaque: Single Use Bag Reduction & Recycling Program
- Traditional Plaque: Building Permit Viewer
- Certificate of Recognition: Report a Violation
- Certificate of Recognition: Annual Women's Leadership Council Conference Series
- Certificate of Recognition: Stormwater Best Management Practices

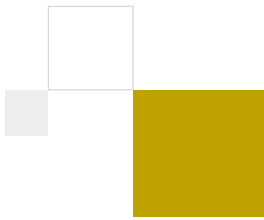
### 2010 – 24th Annual Productivity and Quality Awards

- Top Ten: Countywide Address Management System (CAMS) (Collaboration with Registrar-Recorder/County Clerk, Internal Services, Chief Information Office, Regional Planning, and Assessor)
- Special Merit Plaque: Land Records Information Website
- Special Merit Plaque: Traffic Signal Street Sign Retrofit
- Special Merit Plaque: Waterworks' Well and Pump Maintenance Program
- Certificate of Recognition: Social Networking is a "SNAP"
- Certificate of Recognition: Blackberry Helps Fight Graffiti
- Certificate of Recognition: OVMC Emergency Services Expansion and TB Unit
- Certificate of Recognition: Phone Bill Management System
- Certificate of Recognition: Green Computing Initiatives
- Certificate of Recognition: Return to Work / Safety Program
- Certificate of Recognition: Station Fire Culvert Cleanout Project
- Certificate of Recognition: Green Equipment and Body Shop
- Certificate of Recognition: East Valinda Shuttle Service
- Certificate of Recognition: Management Plan to Reduce Sewer Overflows

### 2009 – 23rd Annual Productivity and Quality Awards

- Productivity Enhancement: City Service Request Tracking System
- Top Ten – SILVER EAGLE: The Sunshine Canyon Landfill Expansion (Collaboration with CEO, Regional Planning, County Counsel, Public Health, and Treasure & Tax Collector)
- Multi-Million Dollar Club: Surface Transportation Program – Local Exchange
- Multi-Million Dollar Club: The Sunshine Canyon Landfill Expansion (Collaboration with CEO, Regional Planning, County Counsel, Public Health, and Treasure & Tax Collector)
- Special Merit Plaque: Enhancing County Response to Sewage Spills (Collaboration with Public Health, Beaches and Harbors, Fire, and Internal Services)
- Special Merit Plaque: Sanitary Sewer Condition Assessment Program
- Special Merit Plaque: Surface Transportation Program - Local Exchange
- Special Merit Plaque: Pass Chip Seal Project
- Special Merit Plaque: Sharps Waste Management Program
- Traditional Plaque: Dominguez Gap Wetlands Project
- Traditional Plaque: Water Meter and Irrigation Account Evaluation
- Certificate of Recognition: Women's Leadership Council
- Certificate of Recognition: Ergonomics Training Video for Field Employees
- Certificate of Recognition: Job Track System
- Certificate of Recognition: Avocado Heights, Bassett, and West Valinda Shuttle





## CALIFORNIA STATE ASSOCIATION OF COUNTIES

### 2010 California State Association of Counties (CSAC)

- Honorable Mention: City Services Tracking System
- Honorable Mention: East Valinda Shuttle
- Honorable Mention: Green Equipment and Body Shop
- Honorable Mention: Marie Canyon Water Quality Project
- Honorable Mention: Mobile Graffiti Abatement Referral System (mGARS)

### 2009 California State Association of Counties (CSAC)

- Merit Award – Job Track Online
- Honorable Mention– Interactive Customer Inquiry System
- Honorable Mention– Electronic Notification System (eNotify)
- Honorable Mention– Sewer Maintenance District Condition Assessment Program
- Honorable Mention– Dominguez Gap Wetlands Multiuse Project
- Honorable Mention– LAC + USC Medical Center Replacement Project
- Honorable Mention– Permitting the Sunshine Canyon Landfill Expansion
- Honorable Mention– Proactive/Preventative Well Maintenance Program
- Honorable Mention– Sharps Waste Management Program

## Other Awards & Recognitions:

### 2011 American Society of Civil Engineers – Los Angeles Section and Region 9

- Outstanding Practitioner Advisor - Diego Cadena

### 2011 American Society of Civil Engineers – Metropolitan Los Angeles Branch

- Outstanding Civil Engineer in Government - Dr. Youn Sim
- Outstanding Practitioner Advisor - Diego Cadena

### 2011 Best Civil Works/Infrastructure Project by Engineering News-Record

- Big Tujunga Dam Seismic Rehabilitation & Spillway Modification Project

### 2011 California Department of Resources Recycling and Recovery (CALRECYCLE)

- Best New Program- Countywide Sharps Waste Management Program

### 2011 Center for Digital Govrment - Best of California, Project Excellence Award

- Best Application Serving the Public – MyWAM (Water account inquiry and payment)
- Demonstrated Excellence in Project Management – Joe Shiuan

### 2011 Center for Digital Government – National Award

- Digital Government Achievement (Government-to-Citizen County Government) – MyWAM

### 2011 County Engineers Association of California - Surveyor of the Year

- Steven Steinhoff

### 2011 Design-Build Institute of American Western Pacific Region

- Distinguished Design-Build Leadership Award – Jacob Williams

### 2011 Government Finance Officers Association

- County Flood Control District, 2009-2010 Comprehensive Annual Financial Report

### **2011 Los Angeles Architectural Award – Los Angeles Business Council**

- High Desert Multi-Service Ambulatory Care Center Project (Design Concept)

### **2011 National Rehabilitation Project of the Year Award by the Association of State Dam Safety Officials (ASDSO)**

- Big Tujunga Dam

### **2011 Southern CA American Public Works Association – Project of the Year**

- Interstate I-5/Hasley Canyon Road Interchange Project
- iPhone App – "The Works"
- Big Tujunga Dam Seismic Rehabilitation & Spillway Modification Project

### **2011 United States Green Building Council**

- Gold Level Leadership in Energy and Environmental Design (LEED) for the Public Works Alhambra HQ Building

### **2010 American Public Works Association**

- Best Improvement for Public Safety – 2009 Station Fire Culvert Improvement Cleanout Project

### **2010 Government Technology Magazine & the Los Angeles Technology Forum Advisory Board**

- Outstanding IT Manager Award - Rene Melendez

### **2010 Government Finance Officers Association**

- Certificate of Achievement for Excellence in Financial Reporting for the Flood Control District, 2009-2010 Comprehensive Annual Financial Report

### **2010 Guinness World Record**

- Biggest Plastic Bag Sculpture in the World- a public education campaign to showcase plastic bag consumption in Los Angeles County

### **2010 Los Angeles County STARS (Special Talents for Achieving Remarkable Service)**

- LA County Stars Award – MD5 Chip Seal Team (March 2010)
- 2010 LA County Superstars Award - MD5 Chip Seal Team (May 2011)

### **2010 Southern CA American Public Works Association (APWA) B.E.S.T. (Building, Excellence, Shaping Tomorrow) Awards**

- Project of the Year Award: La Crescenta Public Library
- Project of the Year Award: Hermosa Beach Strand Infiltration Trench

### **2009 Best of California Project Excellence Award**

- Best Application Serving the Public – Graffiti Abatement Referral System (GARS)

### **2009 Digital Government Achievement Award (DGAA)**

- Government-to-citizen Local Government category - Electronic Notification System (eNotify)

### **2009 Government Finance Officers Association**

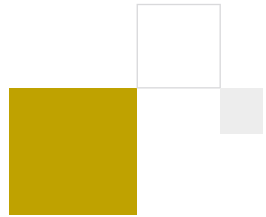
- Certificate of Achievement for Excellence in Financial Reporting for the Flood Control District - 2008-2009 Comprehensive Annual Financial Report

### **Government Technology Magazine & the Los Angeles Technology Forum Advisory Board**

- Outstanding IT Manager Award - Rene Melendez

### **Los Angeles County's CIO Award**

- Departmental Information Security Program of the Year - Erick Weber



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